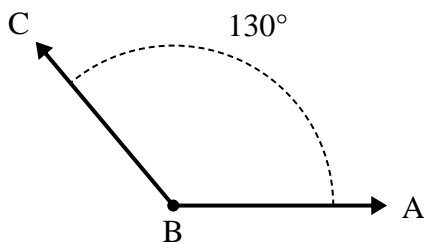**Solve each problem.**

1)

C   130°

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 79 degrees.

B. What is the measure of angle DBC?

2)

C

68°

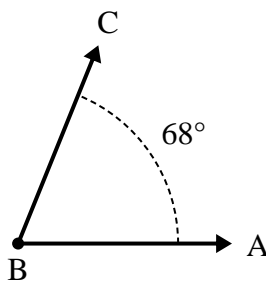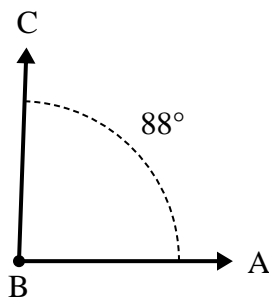B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 37 degrees.

B. What is the measure of angle DBC?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

3)

C

88°

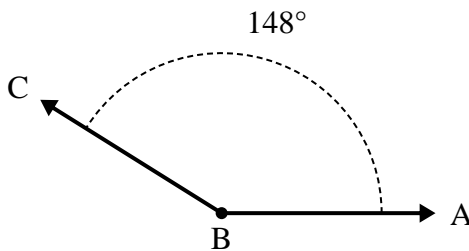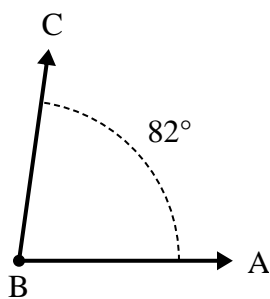B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 56 degrees.

B. What is the measure of angle DBC?

4)

148°

C

B   A
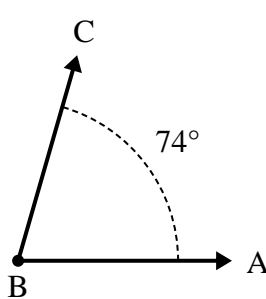
A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 71 degrees.

B. What is the measure of angle ABD?

5)

C

82°

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 30 degrees.

B. What is the measure of angle DBC?

6)

C

74°

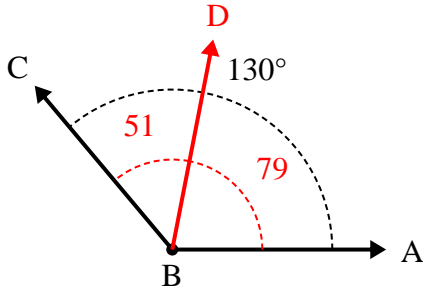B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 34 degrees.

B. What is the measure of angle ABD?

Solve each problem.

1)

D
C   130°
   51
        79
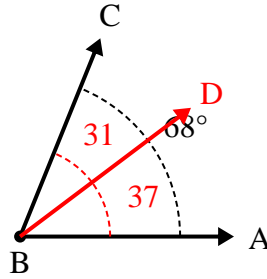B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 79 degrees.

B. What is the measure of angle DBC?
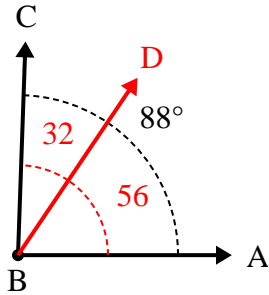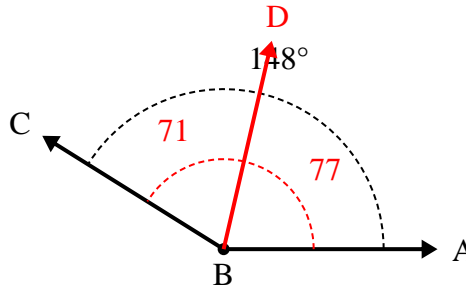
2)

C
        D
   31 68°
       37
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 37 degrees.

B. What is the measure of angle DBC?

1. _____ **51°**

2. _____ **31°**

3. _____ **32°**

4. _____ **77°**

5. _____ **52°**

6. _____ **40°**
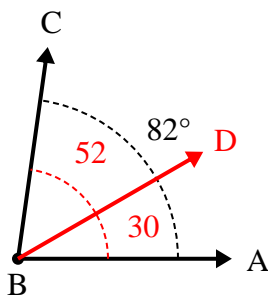
3)

C
      D
   32 88°
       56
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 56 degrees.

B. What is the measure of angle DBC?

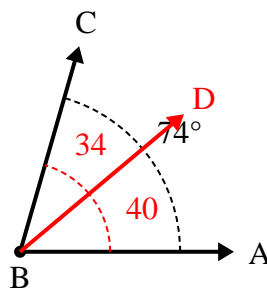**4)**

D
      148°
C   71
        77
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 71 degrees.

B. What is the measure of angle ABD?

5)

C
   82° D
52
   30
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 30 degrees.

B. What is the measure of angle DBC?

6)

C
        D
   34 74°
       40
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 34 degrees.
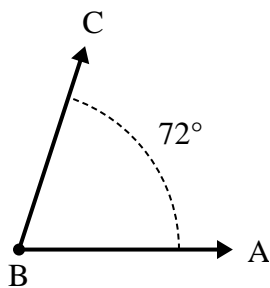
B. What is the measure of angle ABD?

Solve each problem.

1)

C

72°

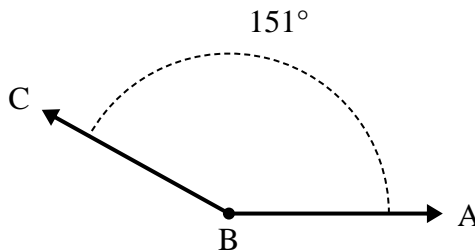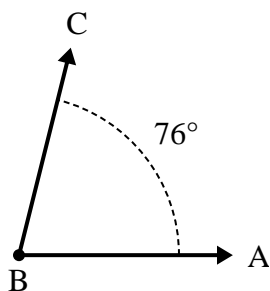A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 32 degrees.

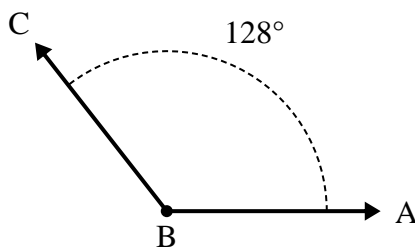B. What is the measure of angle DBC?

2)

151°

C

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 44 degrees.

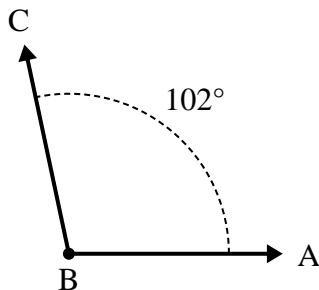B. What is the measure of angle ABD?

3)

C

76°

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 34 degrees.

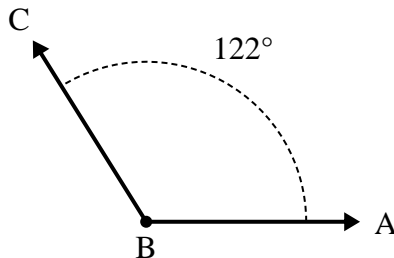B. What is the measure of angle ABD?

4)

C

128°

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 71 degrees.

B. What is the measure of angle DBC?

5)

C

102°

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 56 degrees.

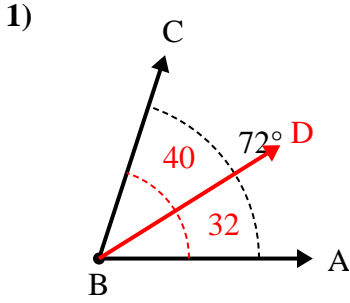B. What is the measure of angle ABD?

6)

C

122°

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 88 degrees.

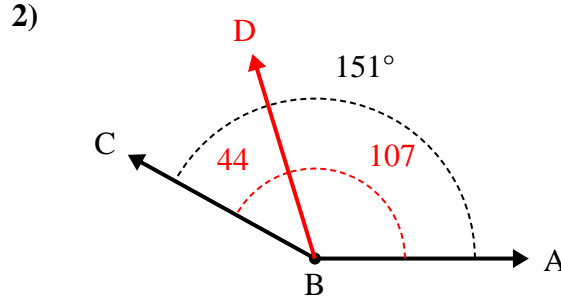B. What is the measure of angle ABD?

Solve each problem.

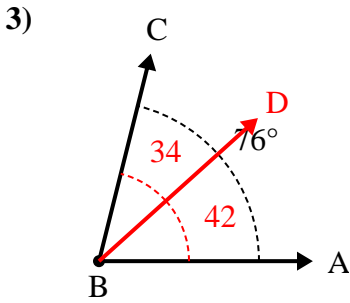1. **40°**
2. **107°**
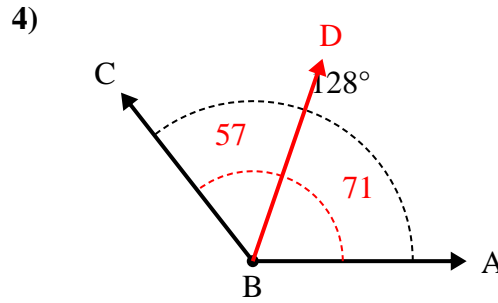3. **42°**
4. **57°**
5. **46°**
6. **34°**

1)

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 32 degrees.

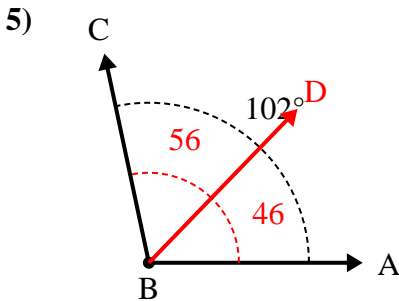B. What is the measure of angle DBC?

2)

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 44 degrees.

B. What is the measure of angle ABD?

3)

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 34 degrees.

B. What is the measure of angle ABD?

4)

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 71 degrees.

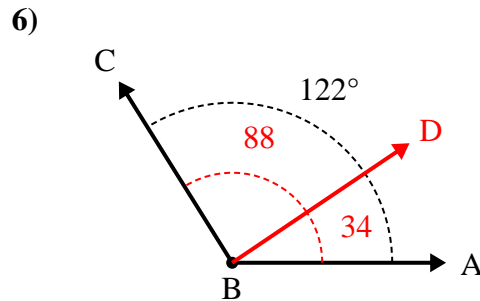B. What is the measure of angle DBC?

5)

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 56 degrees.

B. What is the measure of angle ABD?

6)

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 88 degrees.

B. What is the measure of angle ABD?

Solve each problem.

1)

C

100°

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 49 degrees.
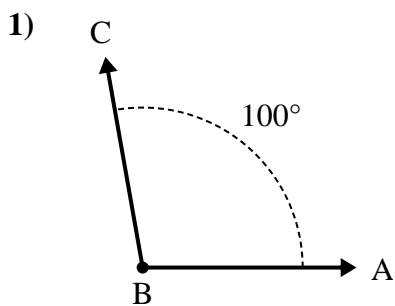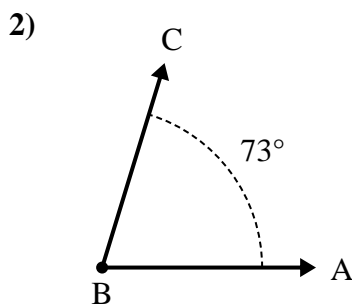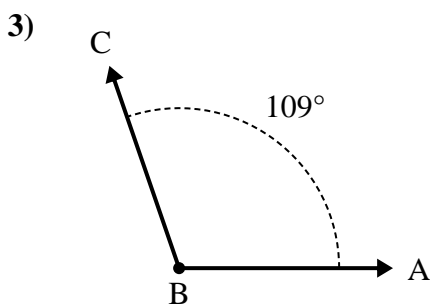
B. What is the measure of angle ABD?

2)

C

73°

B   A
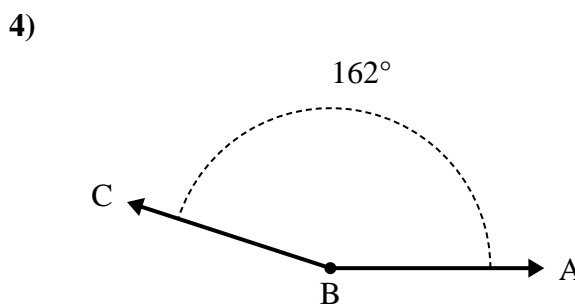
A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 36 degrees.

B. What is the measure of angle ABD?
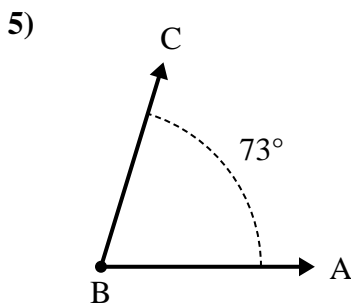
3)

C

109°

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 62 degrees.

B. What is the measure of angle DBC?

4)

162°

C

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 74 degrees.

B. What is the measure of angle DBC?

5)

C

73°

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 39 degrees.
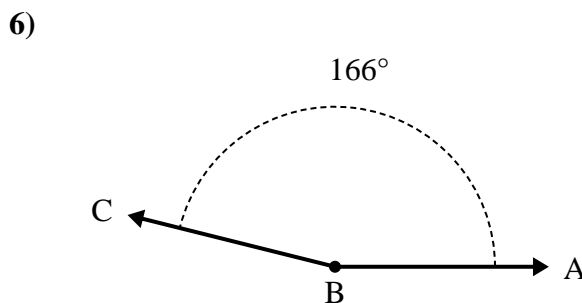
B. What is the measure of angle ABD?
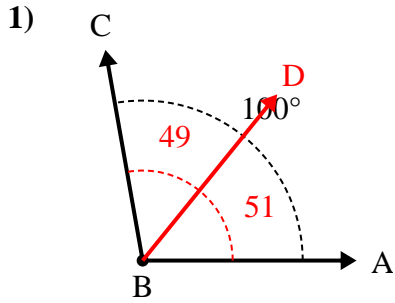
6)

166°

C

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 50 degrees.

B. What is the measure of angle ABD?

Name: **Answer Key**

Solve each problem.

1)

C

D

100°

49

51

B ——→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 49 degrees.

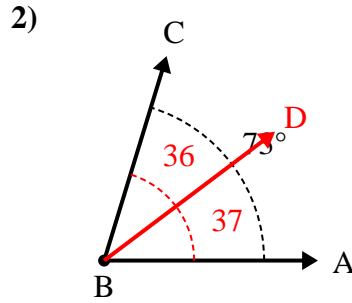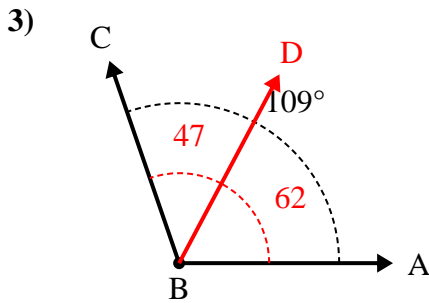B. What is the measure of angle ABD?

2)

C

D

73°

36

37
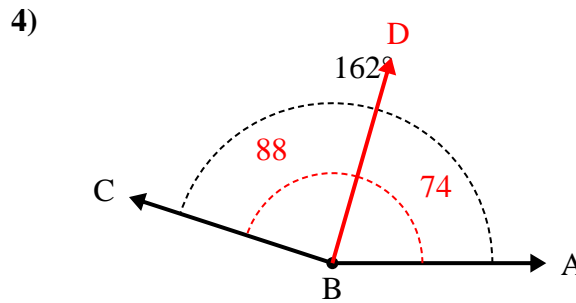
B ——→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 36 degrees.

B. What is the measure of angle ABD?
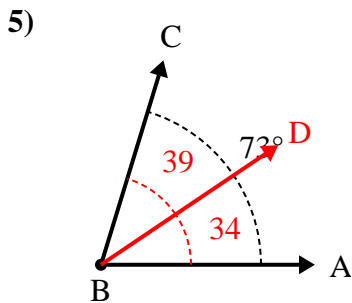
1. **51°**

2. **37°**

3. **47°**

4. **88°**

5. **34°**

6. **116°**

3)

C

D

109°

47

62

B ——→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 62 degrees.

B. What is the measure of angle DBC?

4)

D

162°

88

74

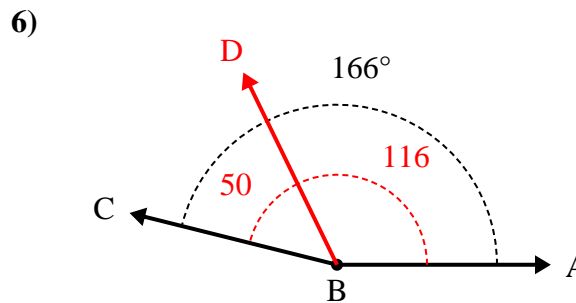C ←—— B ——→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 74 degrees.

B. What is the measure of angle DBC?

5)

C

D

73°

39

34

B ——→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 39 degrees.

B. What is the measure of angle ABD?

6)

D

166°

116

50

C ←—— B ——→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 50 degrees.
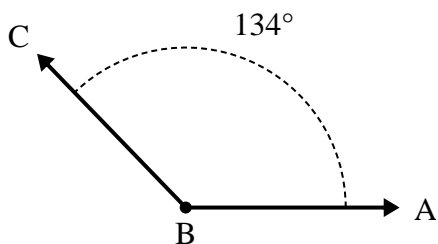
B. What is the measure of angle ABD?

Solve each problem.

1)

134°

C
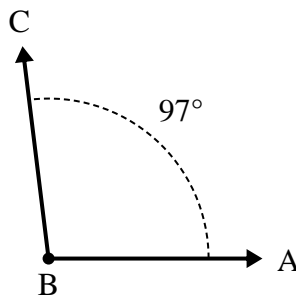
A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 50 degrees.

B. What is the measure of angle DBC?

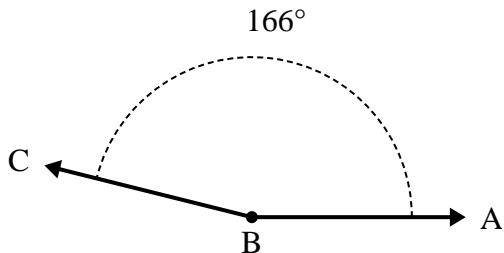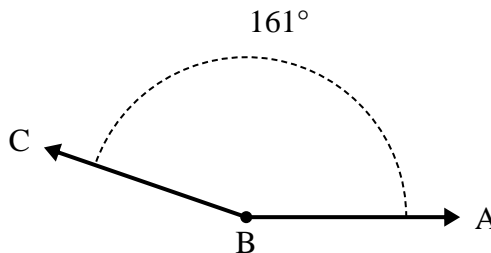**2)**

C

97°

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 66 degrees.
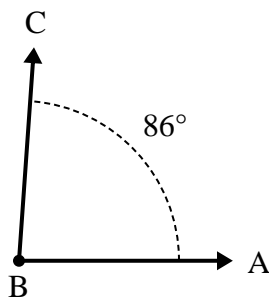
B. What is the measure of angle DBC?

3)

166°

C

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 52 degrees.

B. What is the measure of angle ABD?

4)

161°

C

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 99 degrees.

B. What is the measure of angle ABD?

5)

C

86°

A
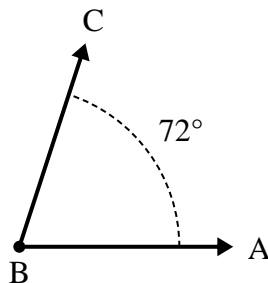
B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 33 degrees.

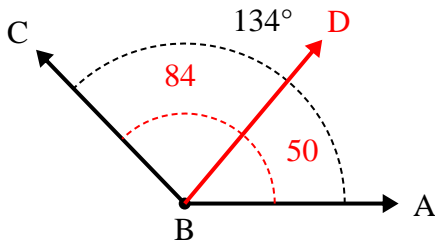B. What is the measure of angle ABD?

6)

C

72°

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 31 degrees.

B. What is the measure of angle ABD?
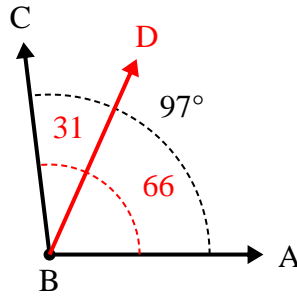
Name:

Solve each problem.

1)

134°   D

84

50

C

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 50 degrees.

B. What is the measure of angle DBC?

2)

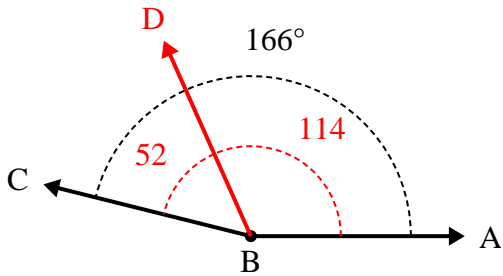
C   D

97°

31

66

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 66 degrees.

B. What is the measure of angle DBC?

1. _____ **84°**

2. _____ **31°**

3. _____ **114°**

4. _____ **62°**

5. _____ **53°**
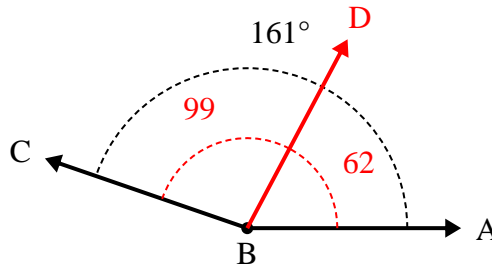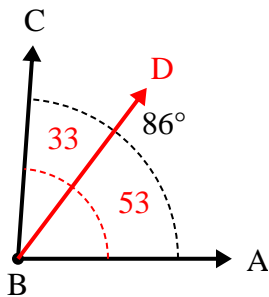
6. _____ **41°**

3)

D   166°

114

52

C

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 52 degrees.

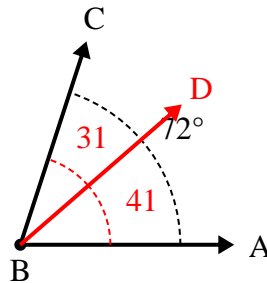B. What is the measure of angle ABD?

4)

161°   D

99

62

C

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 99 degrees.

B. What is the measure of angle ABD?

5)

C

D

33   86°

53

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 33 degrees.

B. What is the measure of angle ABD?

6)

C

D

31   72°

41

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 31 degrees.
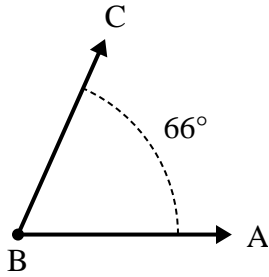
B. What is the measure of angle ABD?

Solve each problem.

1)

C

66°

A
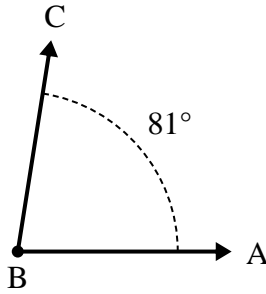B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 31 degrees.

B. What is the measure of angle ABD?

2)

C

81°

A
B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 31 degrees.

B. What is the measure of angle DBC?

3)

163°

C

A
B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 73 degrees.

B. What is the measure of angle DBC?

4)

C

107°

A
B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 58 degrees.

B. What is the measure of angle ABD?

5)

C

73°

A
B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 33 degrees.

B. What is the measure of angle ABD?

6)

C

118°

A
B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 31 degrees.

B. What is the measure of angle ABD?

Solve each problem.

1)

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 31 degrees.

B. What is the measure of angle ABD?

2)

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 31 degrees.

B. What is the measure of angle DBC?

1. _____ **35°**
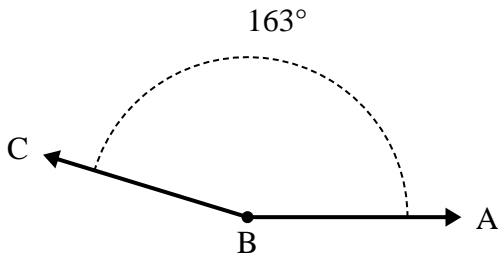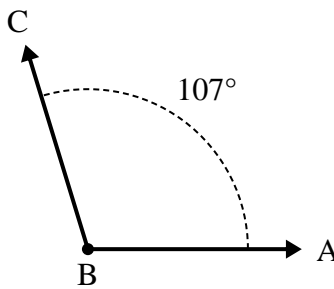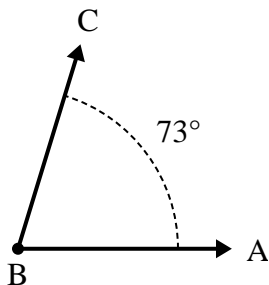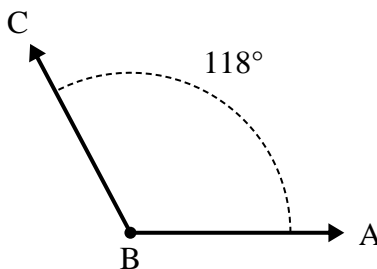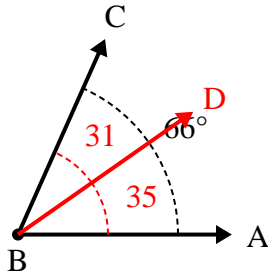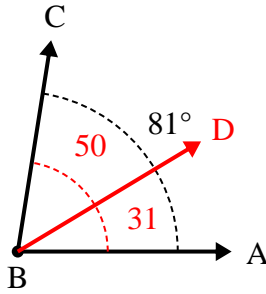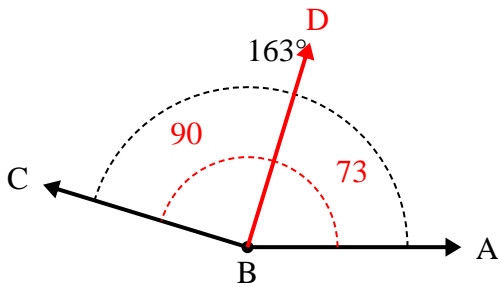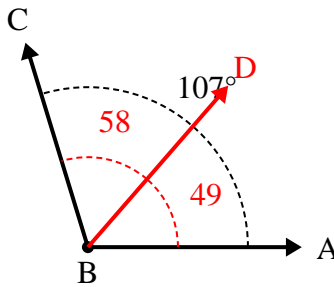
2. _____ **50°**

3. _____ **90°**

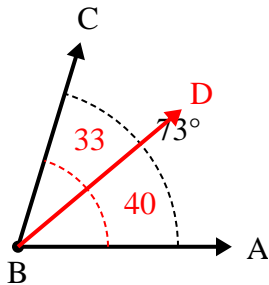4. _____ **49°**

5. _____ **40°**

6. _____ **87°**

3)

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 73 degrees.

B. What is the measure of angle DBC?

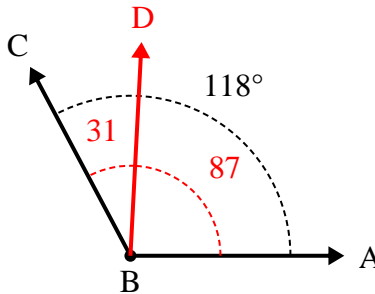**4)**

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 58 degrees.

B. What is the measure of angle ABD?

5)

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 33 degrees.

B. What is the measure of angle ABD?

6)

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 31 degrees.

B. What is the measure of angle ABD?

Math

www.CommonCoreSheets.com

5

Solve each problem.

1)

C

86°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 35 degrees.

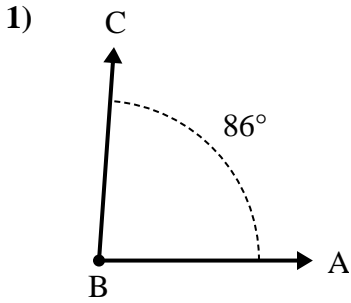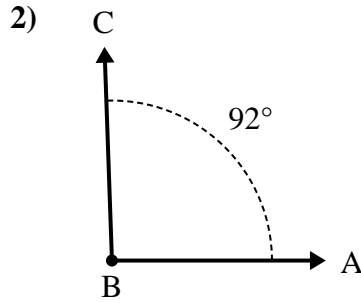B. What is the measure of angle ABD?

2)

C

92°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 34 degrees.
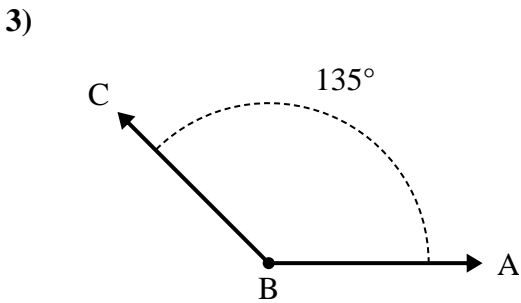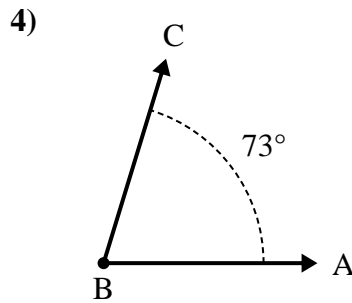
B. What is the measure of angle ABD?

3)
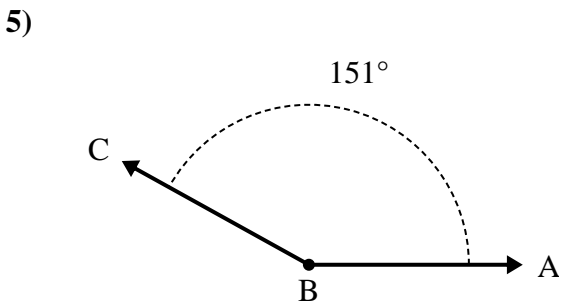
135°

C

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 47 degrees.

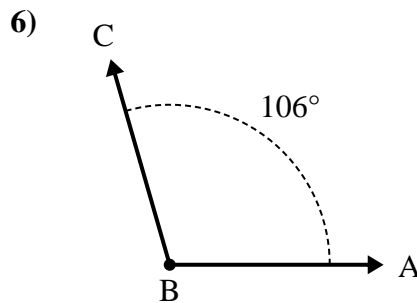B. What is the measure of angle ABD?

4)

C

73°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 42 degrees.

B. What is the measure of angle DBC?

5)

151°

C

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 52 degrees.

B. What is the measure of angle DBC?

6)

C

106°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 76 degrees.

B. What is the measure of angle DBC?

Name:

Solve each problem.

1)

C D 86° 35 51 A B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 35 degrees.

B. What is the measure of angle ABD?
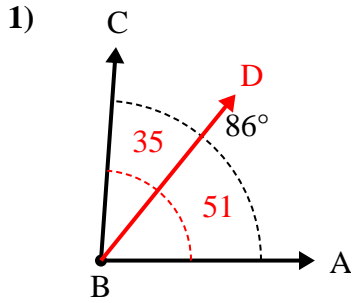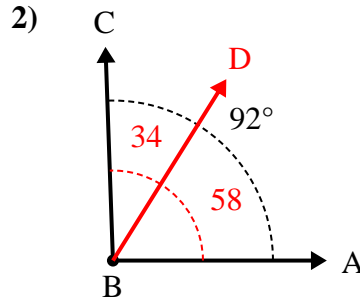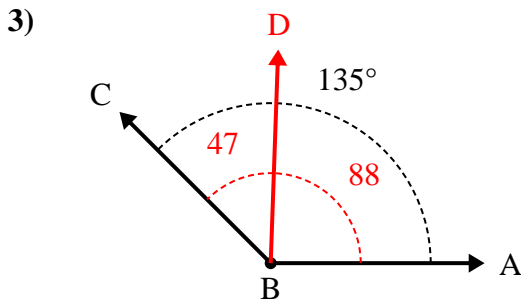
2)

C D 92° 34 58 A B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 34 degrees.

B. What is the measure of angle ABD?

3)

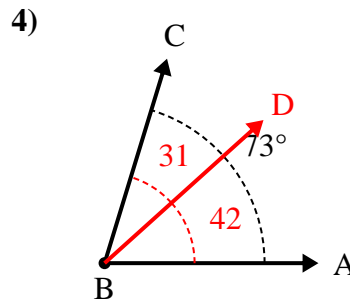D 135° C 47 88 A B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 47 degrees.

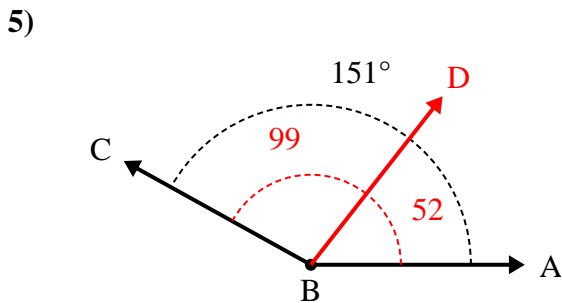B. What is the measure of angle ABD?

4)

C D 31 73° 42 A B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 42 degrees.

B. What is the measure of angle DBC?

5)

151° D C 99 52 A B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 52 degrees.

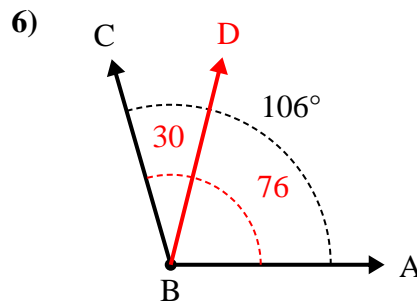B. What is the measure of angle DBC?

6)

C D 106° 30 76 A B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 76 degrees.

B. What is the measure of angle DBC?

Math
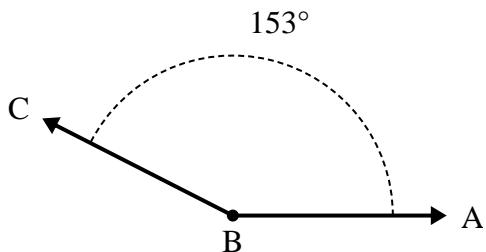
1-6 | 83 | 67 | 50 | 33 | 17 | 0 |

Solve each problem.

1)

153°

C

B   A
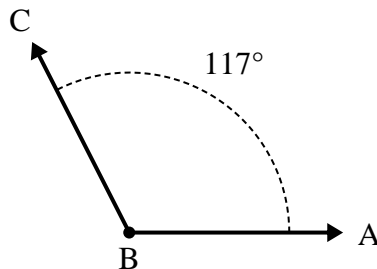
A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 90 degrees.

B. What is the measure of angle ABD?

2)

C

117°

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 78 degrees.

B. What is the measure of angle ABD?

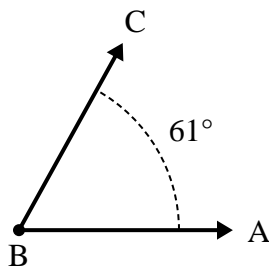**3)**

C

61°

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 30 degrees.

B. What is the measure of angle DBC?

4)

C

114°

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 49 degrees.

B. What is the measure of angle ABD?

5)

164°

C

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 70 degrees.
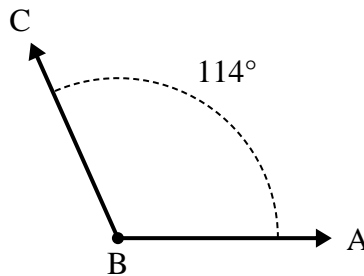
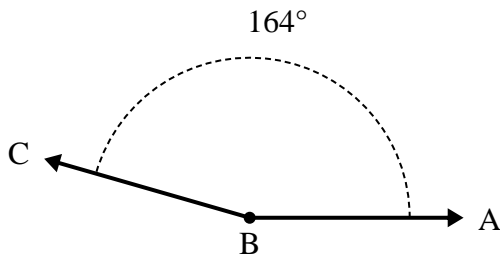B. What is the measure of angle ABD?

6)

C   129°

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 43 degrees.

B. What is the measure of angle DBC?

Name:
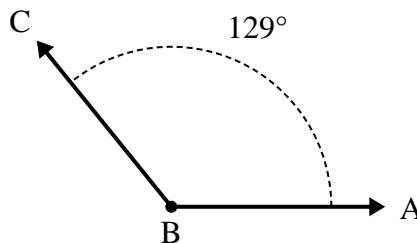
Solve each problem.

1)

153° D

90

C

63

B ————→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 90 degrees.

B. What is the measure of angle ABD?

2)

C

117° D

78

39

B ————→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 78 degrees.
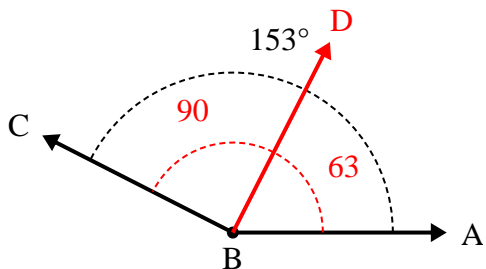
B. What is the measure of angle ABD?

1. **63°**

2. **39°**

3. **31°**

4. **65°**

5. **94°**

6. **86°**

3)

C

31 61° D

30

B ————→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 30 degrees.

B. What is the measure of angle DBC?

4)

C D

114°

49

65

B ————→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 49 degrees.

B. What is the measure of angle ABD?

5)

D

164°

70 94

C

B ————→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 70 degrees.

B. What is the measure of angle ABD?

6)

C 129° D

86

43

B ————→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 43 degrees.

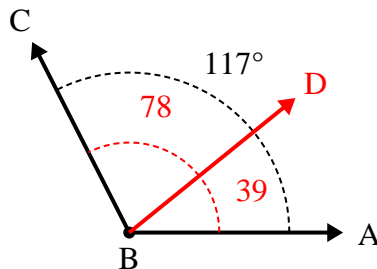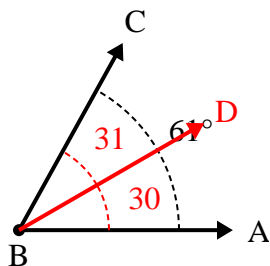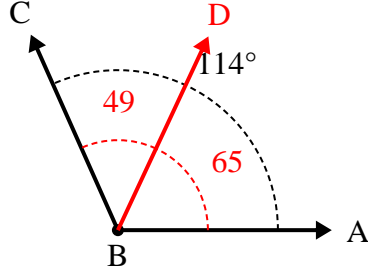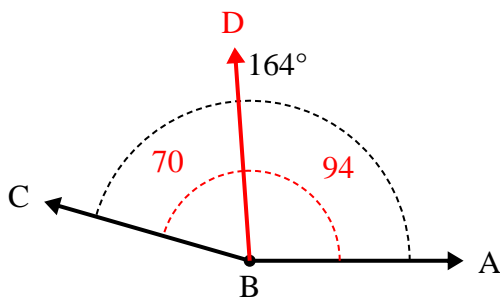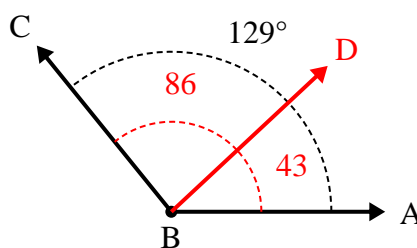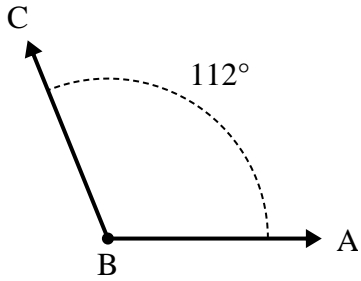B. What is the measure of angle DBC?

Solve each problem.

1)

C

112°
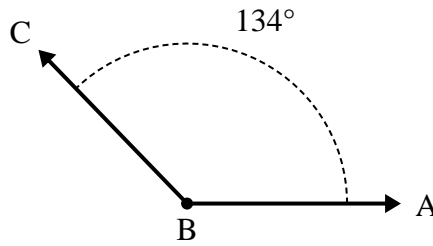
A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 34 degrees.

B. What is the measure of angle ABD?

2)

C

134°

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 91 degrees.
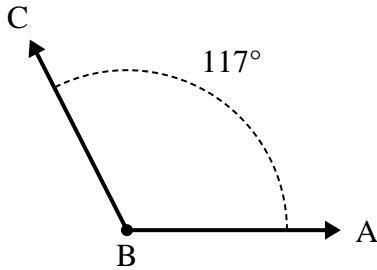
B. What is the measure of angle DBC?
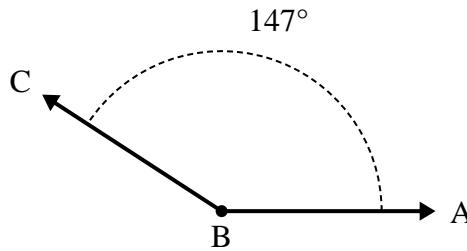
1. _____
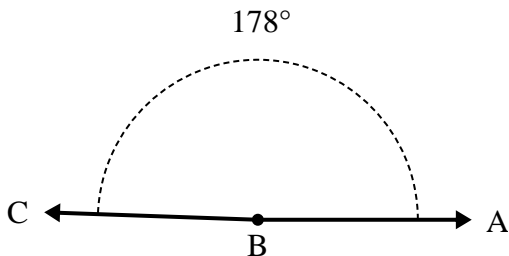
2. _____

3. _____

4. _____

5. _____

6. _____

3)

C

117°

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 66 degrees.

B. What is the measure of angle DBC?

4)

147°

C

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 48 degrees.

B. What is the measure of angle DBC?

5)

178°

C

A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 112 degrees.

B. What is the measure of angle DBC?

6)

C

107°

A

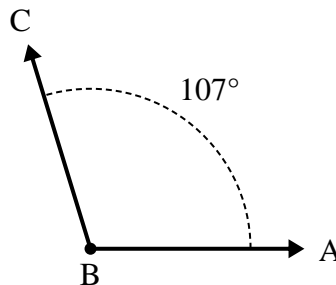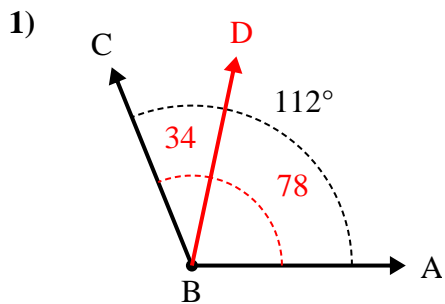B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 58 degrees.

B. What is the measure of angle DBC?

Name: **Answer Key**

Solve each problem.

1)

C   D

112°

34

78

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 34 degrees.

B. What is the measure of angle ABD?

2)

D

134°

C

43

91

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 91 degrees.
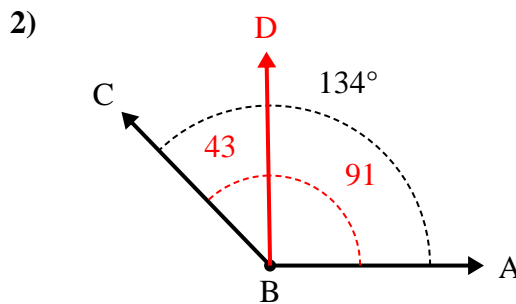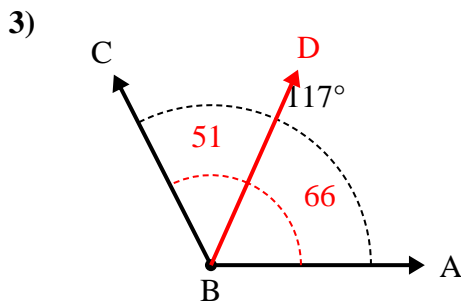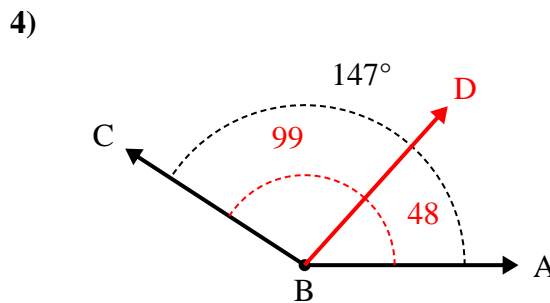
B. What is the measure of angle DBC?

1. **78°**

2. **43°**

3. **51°**

4. **99°**

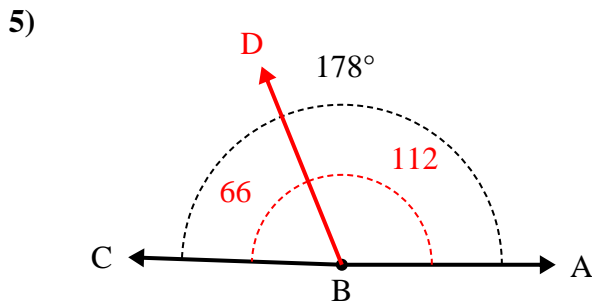5. **66°**

6. **49°**

3)

C   D

117°

51

66

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 66 degrees.

B. What is the measure of angle DBC?

4)

147°   D

C

99

48

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 48 degrees.

B. What is the measure of angle DBC?

5)

D

178°

112

66

C   A

B

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 112 degrees.

B. What is the measure of angle DBC?
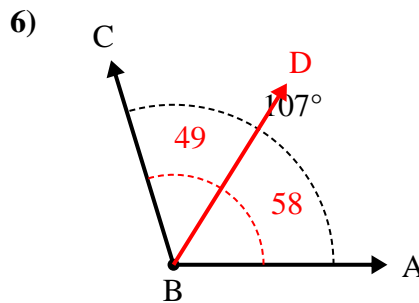
6)

C

D

107°

49

58

B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 58 degrees.

B. What is the measure of angle DBC?

Name: _____

Solve each problem.

1)

C

71°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 41 degrees.

B. What is the measure of angle DBC?

2)

162°

C ←

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 68 degrees.
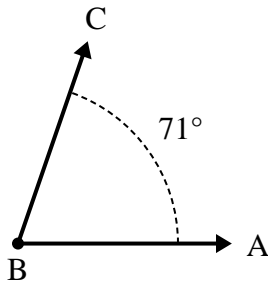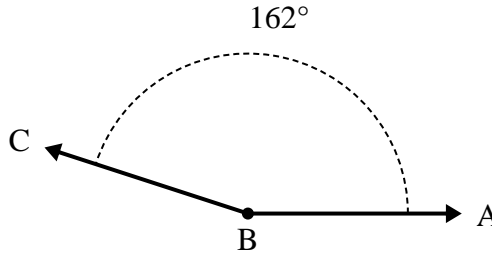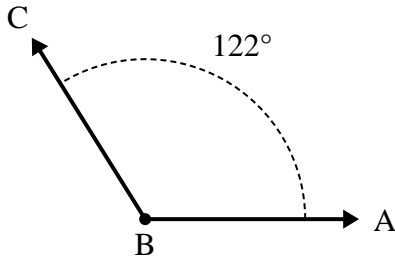
B. What is the measure of angle DBC?

1. _____

2. _____

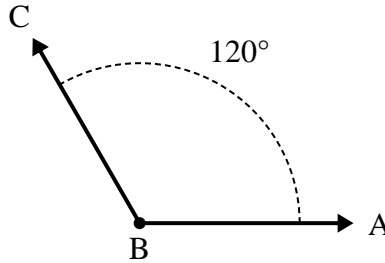3. _____

4. _____

5. _____

6. _____

3)

C

122°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 75 degrees.

B. What is the measure of angle DBC?

4)

C

120°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 53 degrees.

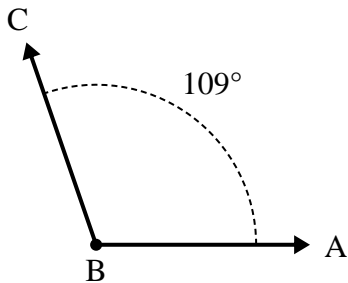B. What is the measure of angle ABD?

5)

C

109°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 55 degrees.

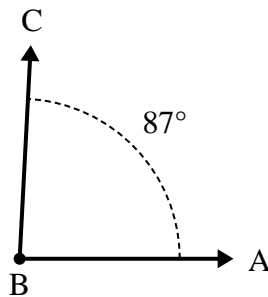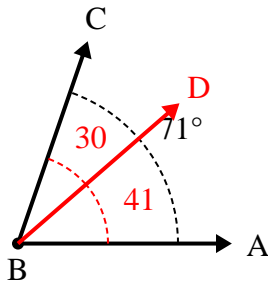B. What is the measure of angle DBC?

6)

C

87°

B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 56 degrees.

B. What is the measure of angle ABD?

Math

9

Solve each problem.

1)

C
D
30 71°
41
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 41 degrees.

B. What is the measure of angle DBC?

2)

D
162°
94
C
68
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 68 degrees.

B. What is the measure of angle DBC?

1. _____ **30°**

2. _____ **94°**

3. _____ **47°**

4. _____ **67°**

5. _____ **54°**

6. _____ **31°**

3)

D
C   122°
47
75
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 75 degrees.

B. What is the measure of angle DBC?

4)

C   D
120°
53
67
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 53 degrees.

B. What is the measure of angle ABD?

5)

C   D
109°
54
55
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 55 degrees.

B. What is the measure of angle DBC?

6)

C
87°
56   D
31
B   A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 56 degrees.

B. What is the measure of angle ABD?

Name: _____

Solve each problem.

1)

C

122°

B _____→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 77 degrees.

B. What is the measure of angle DBC?

2)

C

66°

B _____→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 34 degrees.

B. What is the measure of angle DBC?
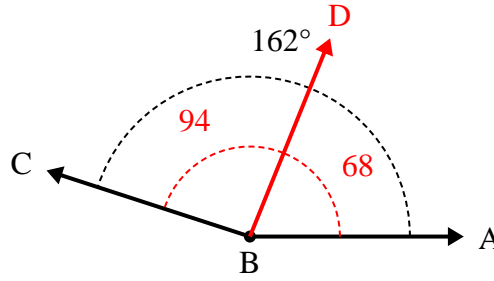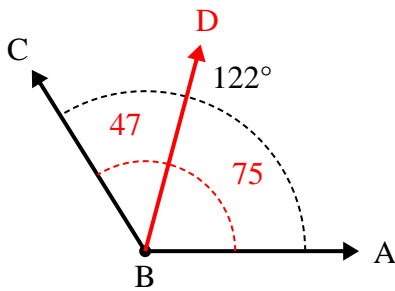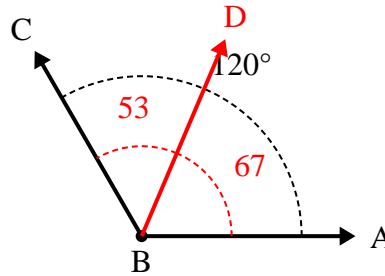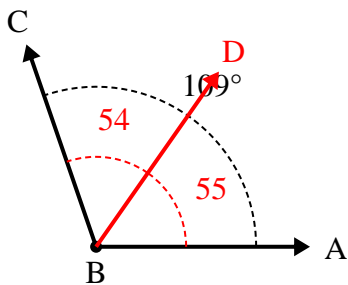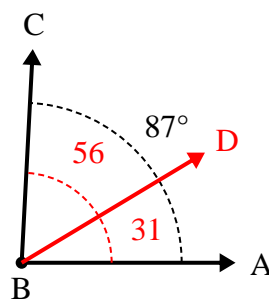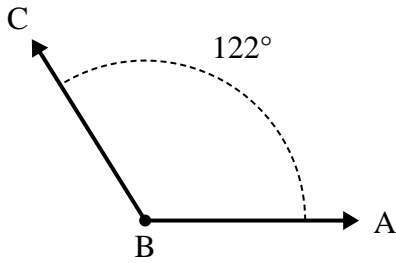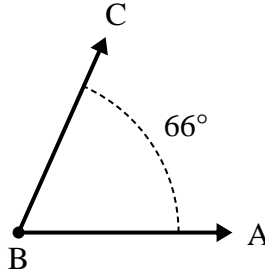
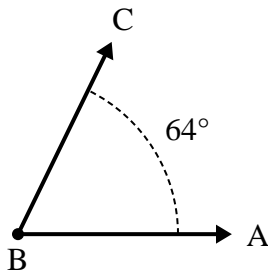1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

3)

C

64°

B _____→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 33 degrees.
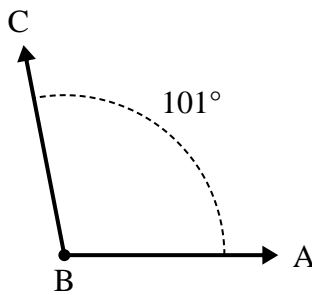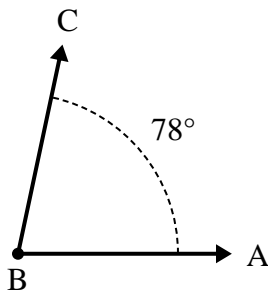
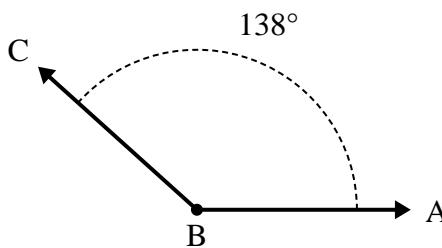B. What is the measure of angle DBC?

4)

C

101°

B _____→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 46 degrees.

B. What is the measure of angle DBC?

5)

C

78°

B _____→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 31 degrees.

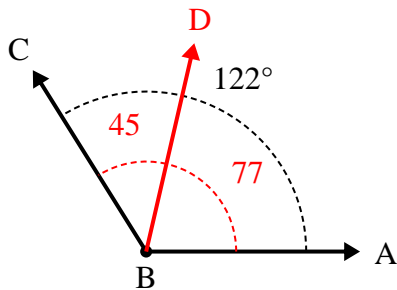B. What is the measure of angle DBC?

6)

138°

C

B _____→ A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 106 degrees.

B. What is the measure of angle DBC?

Name:

Solve each problem.

1)

C D

122°

45

77

B A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 77 degrees.
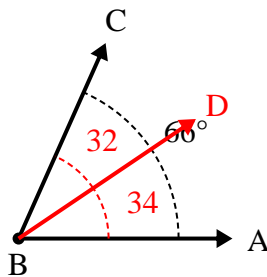
B. What is the measure of angle DBC?

2)

C

D
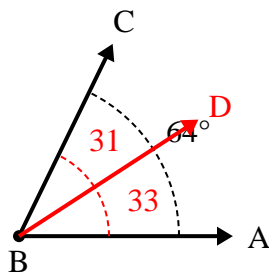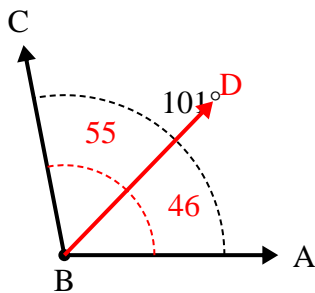
32 60°

34

B A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 34 degrees.

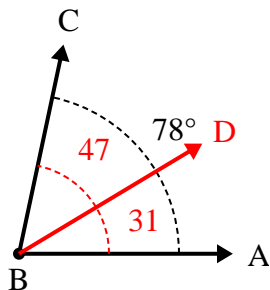B. What is the measure of angle DBC?

3)

C

D

31 64°

33

B A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 33 degrees.

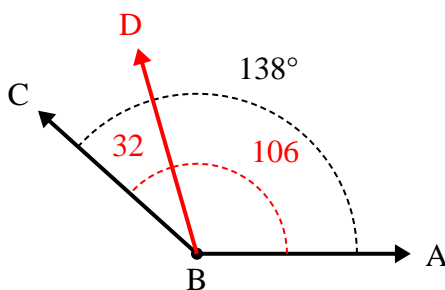B. What is the measure of angle DBC?

4)

C

101° D

55

46

B A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 46 degrees.

B. What is the measure of angle DBC?

5)

C

78° D

47

31

B A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 31 degrees.

B. What is the measure of angle DBC?

6)

D

138°

C

32 106

B A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 106 degrees.

B. What is the measure of angle DBC?