Solve each problem.

1)

172°

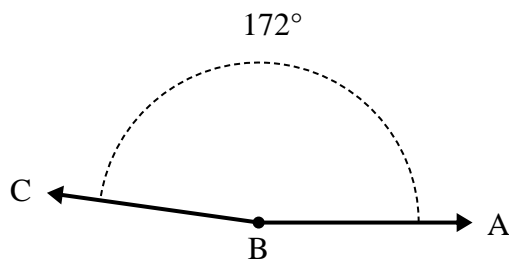C ← B • → A

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?

2)

C

72°

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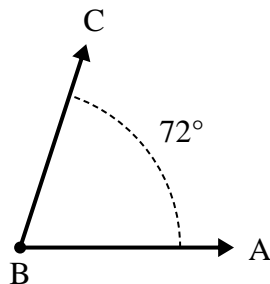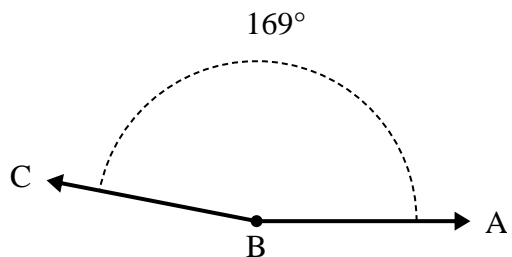
A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle ABD measuring 42 degrees.

B. What is the measure of angle DBC?

1. _____

2. _____

3. _____
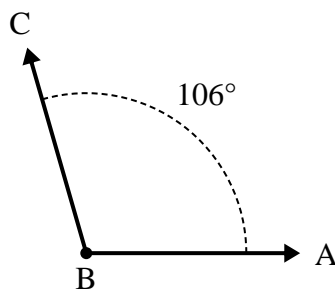
4. _____

5. _____

6. _____

3)

169°

C ← B • → A

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

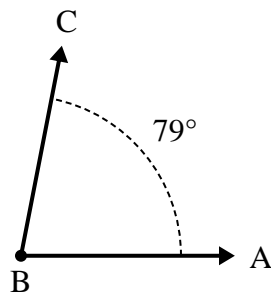B. What is the measure of angle ABD?

4)

C

106°

B • → A

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

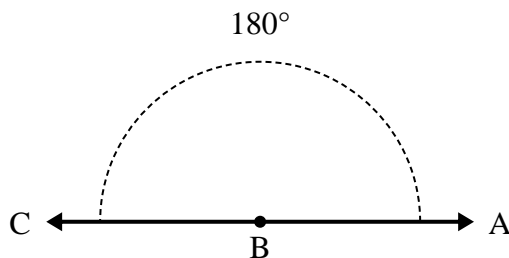B. What is the measure of angle DBC?

5)

C

79°

B • → A

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

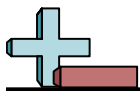B. What is the measure of angle ABD?

6)

180°

C ← B • → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 65 degrees.

B. What is the measure of angle ABD?

Math

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

Name:

Solve each problem.

1. **139°**

2. **30°**

3. **116°**

4. **48°**

5. **47°**

6. **115°**

1)

172°

D

139

33

C

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?
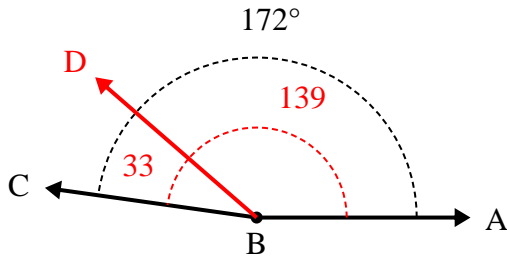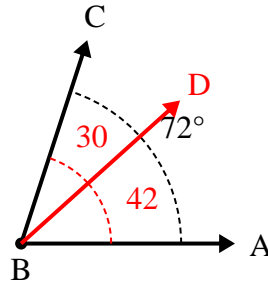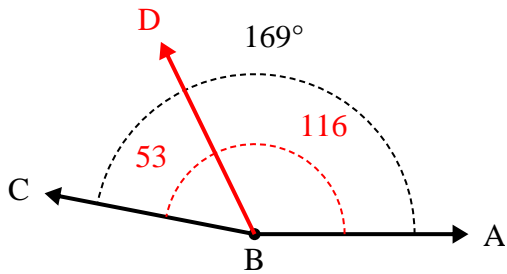
2)

C

D

30 72°

42

B → A

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

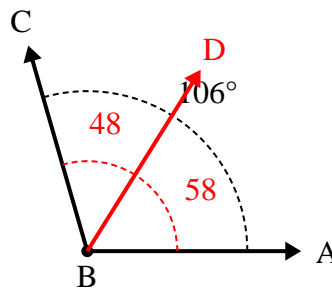B. What is the measure of angle DBC?

3)

D

169°

116

53

C

B → A

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

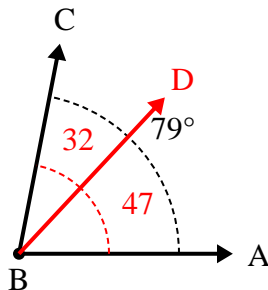B. What is the measure of angle ABD?

4)

C

D

106°

48

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?

5)

C

D

32 79°

47

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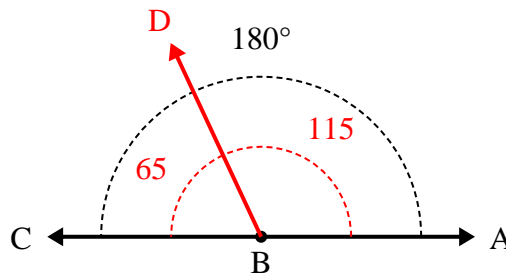
A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 32 degrees.

B. What is the measure of angle ABD?

6)

D

180°

115

65

C ← B → A

A. Draw and label ray BD so that it cuts angle ABC into two smaller angles, with angle DBC measuring 65 degrees.

B. What is the measure of angle ABD?

Math