



Finding Angle between Two Points

Name: _____

Calculate the angle of the circle relative to (0,0).

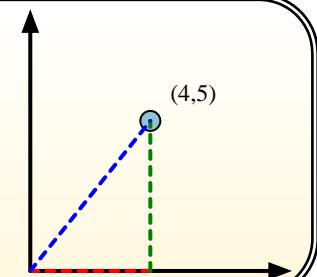
First find the slope.

$$(y_2 - y_1) / (x_2 - x_1) = m$$

$$(5 - 0) / (4 - 0) = 1.25$$

Then find the arc tangent (aka. inverse tangent) of the slope.

$$\arctan(1.25) = 51.34^\circ$$



Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

1) (1, 7)

2) (7, 3)

3) (1, 4)

4) (3, 7)

5) (5, 9)

6) (5, 5)

7) (5, 7)

8) (9, 3)

9) (4, 7)

10) (3, 1)

11) (4, 1)

12) (8, 9)



Finding Angle between Two Points

Name: **Answer Key**

Calculate the angle of the circle relative to (0,0).

First find the slope.
 $(y_2 - y_1) / (x_2 - x_1) = m$
 $(5 - 0) / (4 - 0) = 1.25$

Then find the arc tangent (aka. inverse tangent) of the slope.
 $\arctan(1.25) = 51.34^\circ$

Answers

1. **81.87**
2. **23.20**
3. **75.96**
4. **66.80**
5. **60.95**
6. **45.00**
7. **54.46**
8. **18.43**
9. **60.26**
10. **18.43**
11. **14.04**
12. **48.37**

