

Finding Angle between Two Points

Name: _____

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

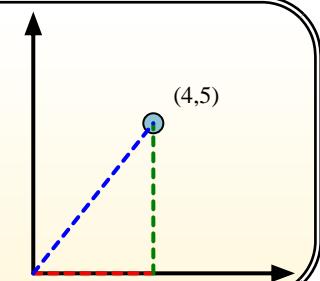
First find the slope.

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

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

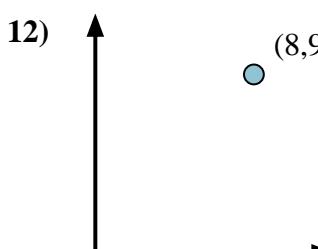
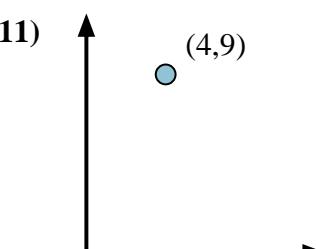
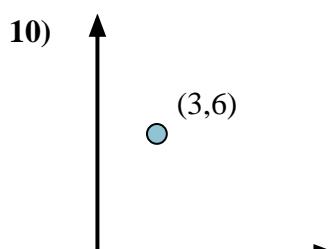
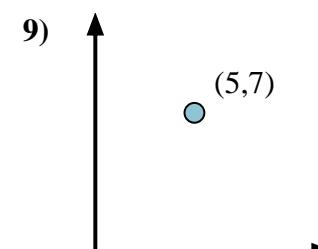
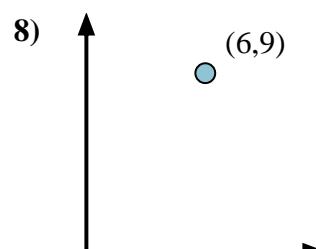
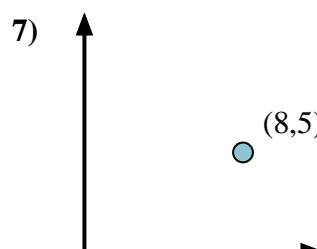
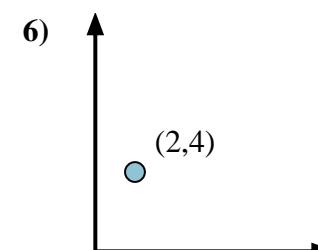
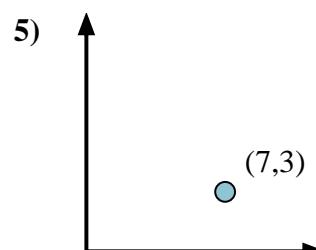
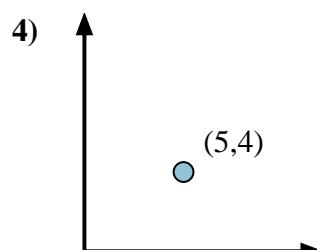
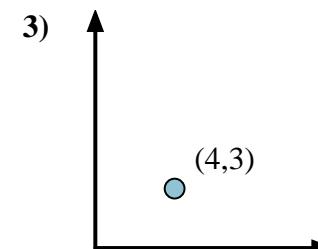
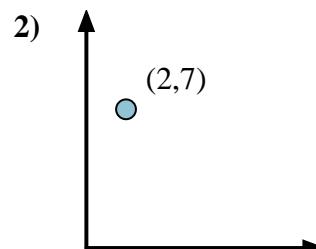
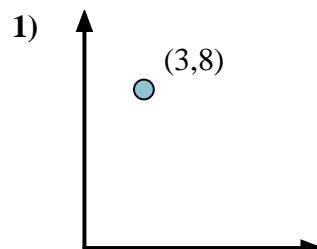
Then find the arc tangent (aka. inverse tangent) of the slope.

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



Answers

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

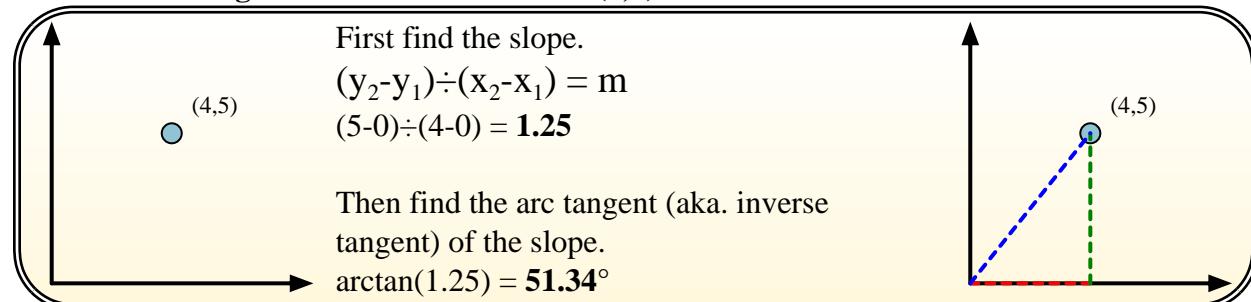




Finding Angle between Two Points

Name: **Answer Key**

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



Answers

1. **69.44**

2. **74.05**

3. **36.87**

4. **38.66**

5. **23.20**

6. **63.43**

7. **32.01**

8. **56.31**

9. **54.46**

10. **63.43**

11. **66.04**

12. **48.37**

