



Finding Angle between Two Points

Name: _____

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

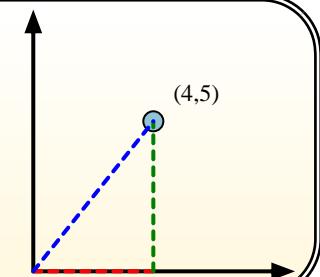
First find the slope.

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

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

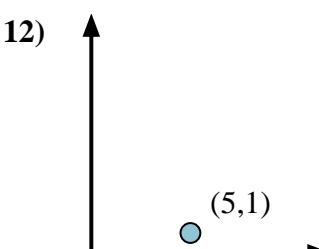
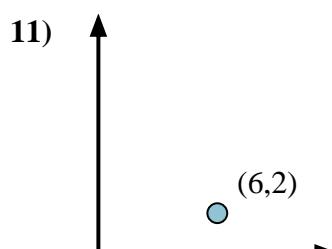
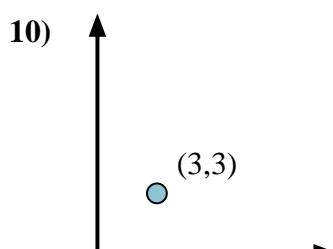
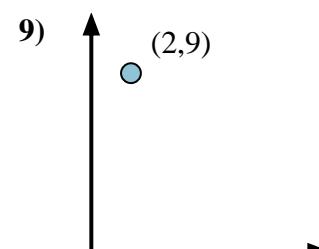
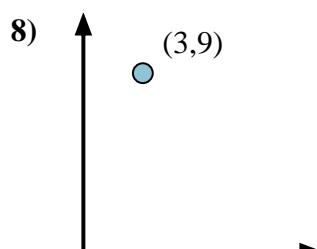
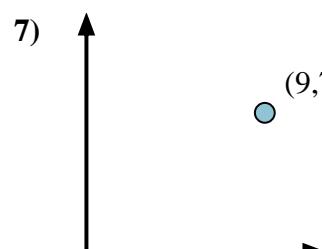
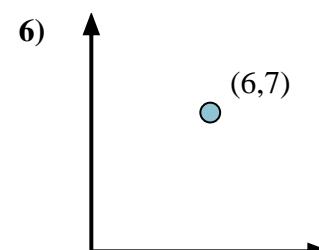
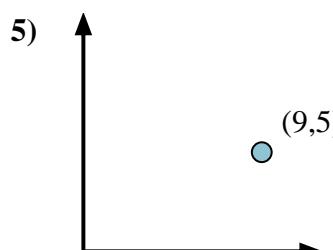
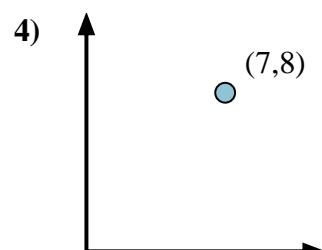
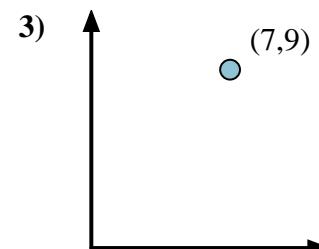
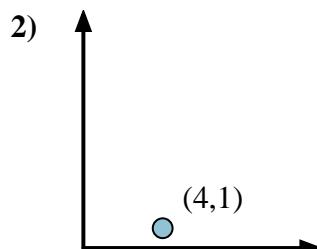
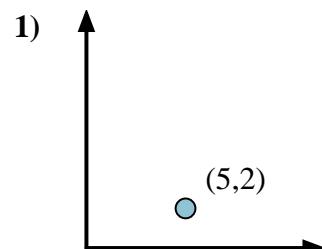
Then find the arc tangent (aka. inverse tangent) of the slope.

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



Answers

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

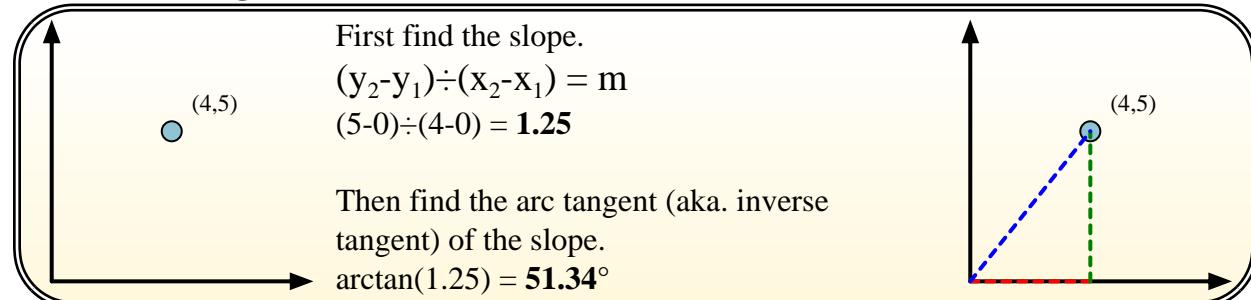




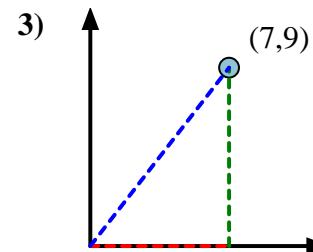
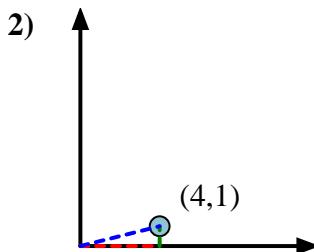
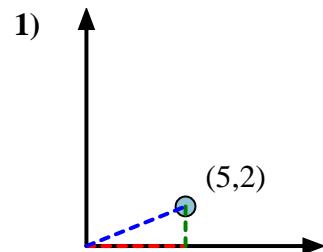
Finding Angle between Two Points

Name: **Answer Key**

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



Answers



1. **21.80**

2. **14.04**

3. **52.13**

4. **48.81**

5. **29.05**

6. **49.40**

7. **37.87**

8. **71.57**

9. **77.47**

10. **45.00**

11. **18.43**

12. **11.31**

