



Finding Angle between Two Points

Name: _____

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

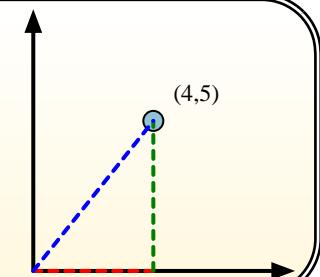
First find the slope.

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

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

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

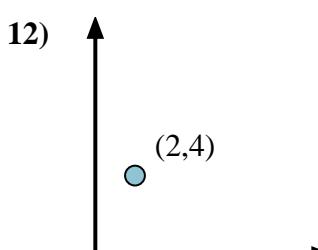
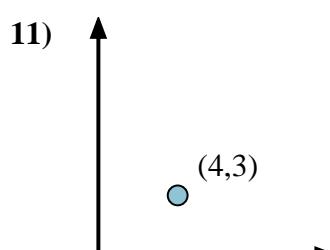
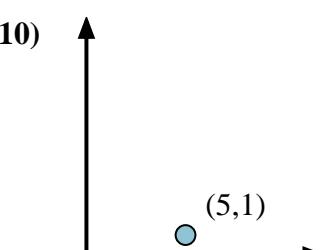
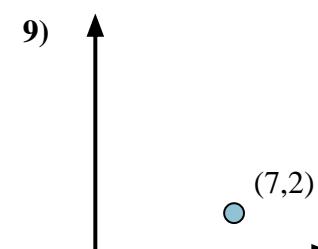
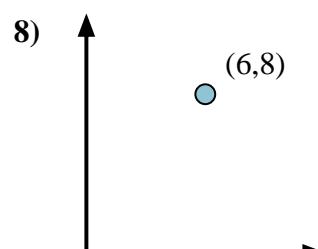
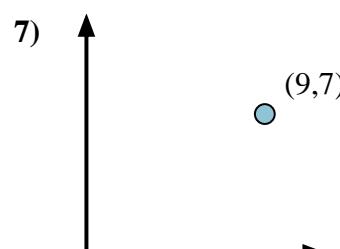
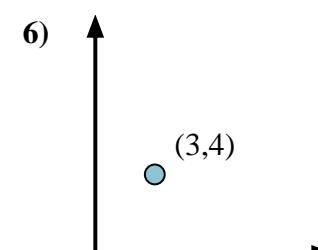
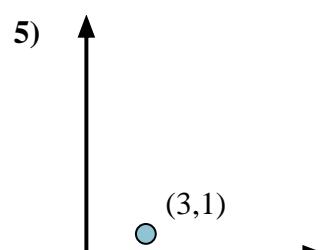
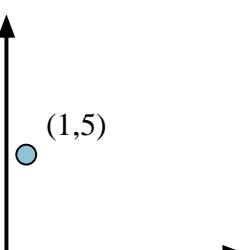
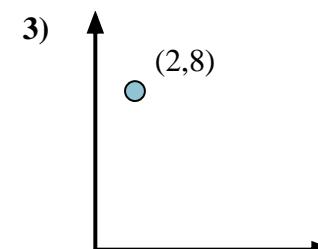
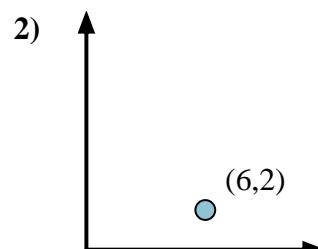
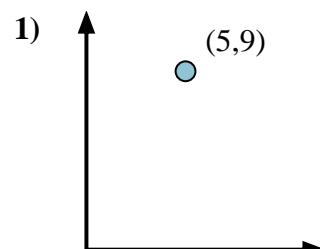
$$\arctan(1.25) = 51.34^\circ$$



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).

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. **60.95**

2. **18.43**

3. **75.96**

4. **78.69**

5. **18.43**

6. **53.13**

7. **37.87**

8. **53.13**

9. **15.95**

10. **11.31**

11. **36.87**

12. **63.43**

