

Finding Angle between Two Points

Name: _____

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

Answers

(4,5)

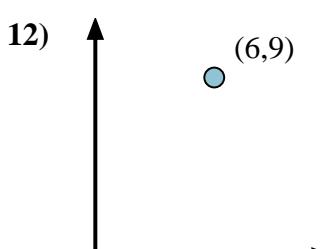
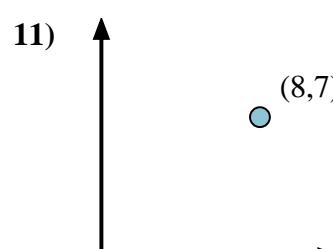
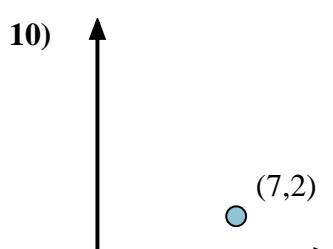
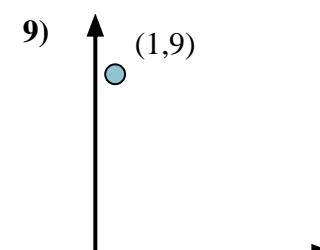
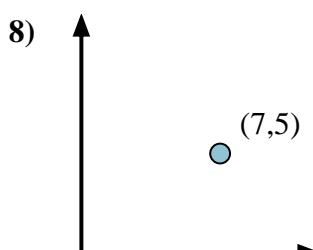
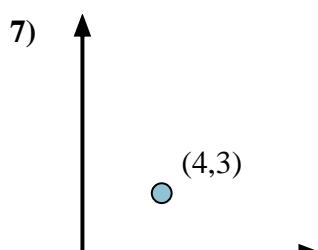
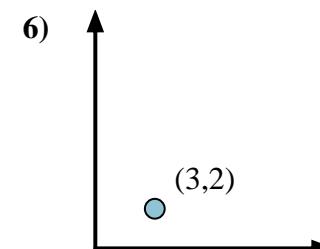
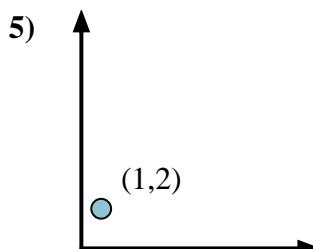
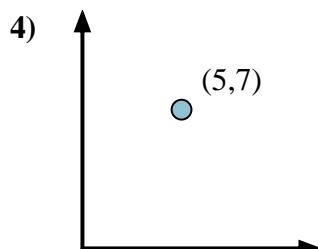
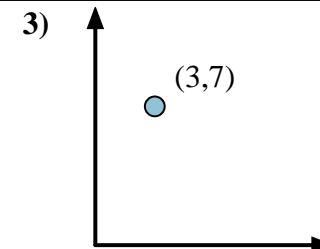
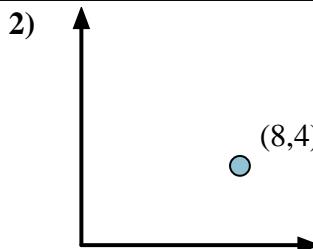
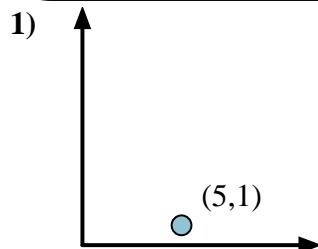
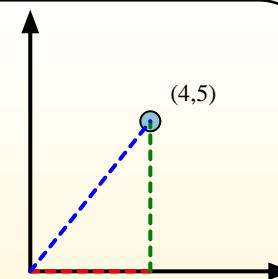
First find the slope.

$$(y_2 - y_1) \div (x_2 - x_1) = m$$

$$(5 - 0) \div (4 - 0) = 1.25$$

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

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



1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

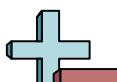
8. _____

9. _____

10. _____

11. _____

12. _____



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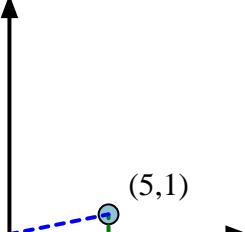
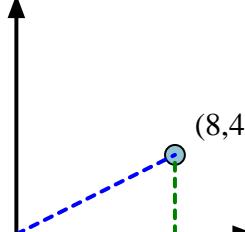
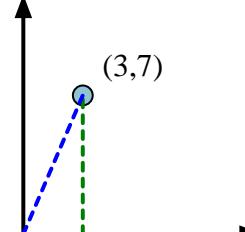
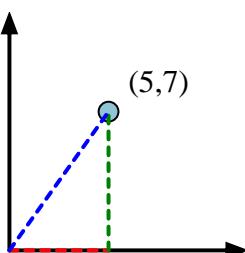
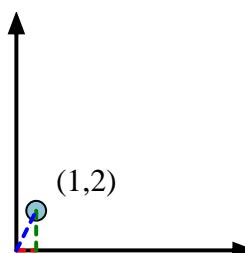
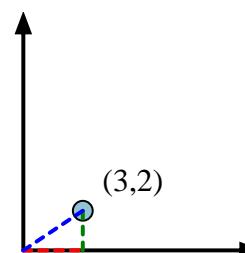
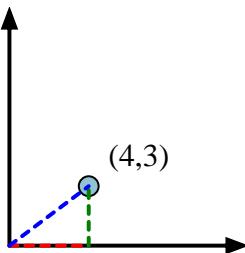
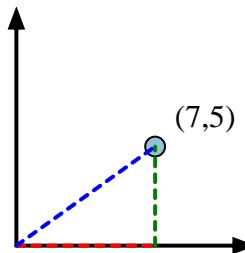
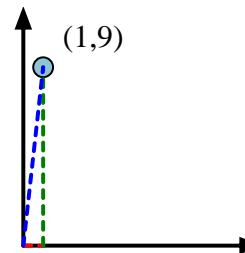
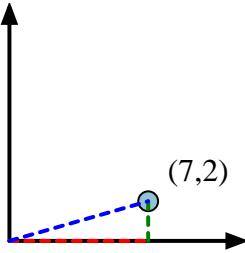
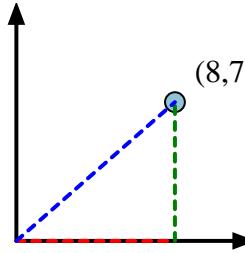
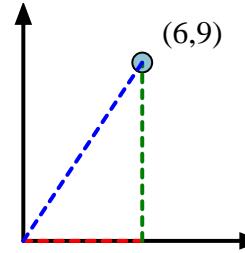
Name: **Answer Key**

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

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

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. **11.31**
2. **26.57**
3. **66.80**
4. **54.46**
5. **63.43**
6. **33.69**
7. **36.87**
8. **35.54**
9. **83.66**
10. **15.95**
11. **41.19**
12. **56.31**