

Finding Angle between Two Points

Name: _____

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

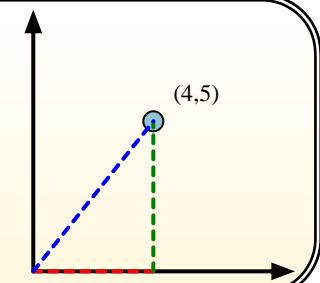
First find the slope.

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

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

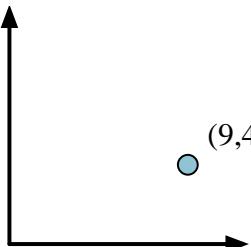
Then find the arc tangent (aka. inverse tangent) of the slope.

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

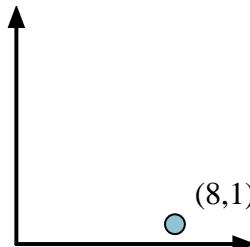


Answers

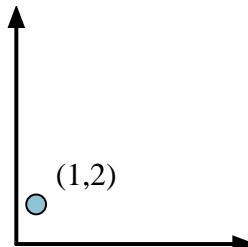
1)



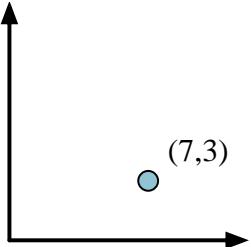
2)



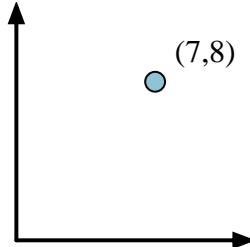
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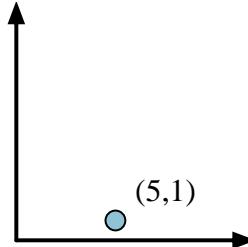
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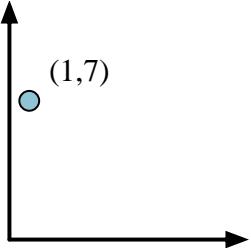
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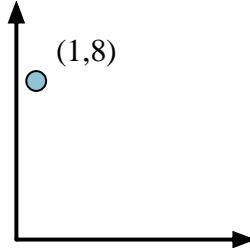
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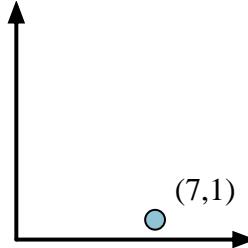
7)



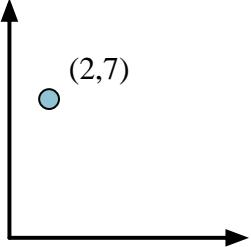
8)



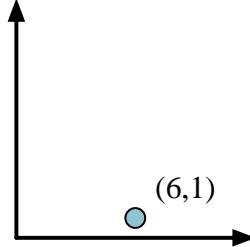
9)



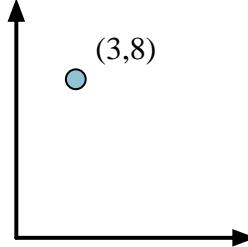
10)



11)



12)



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)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)
- 11)
- 12)

1. **23.96**
2. **7.13**
3. **63.43**
4. **23.20**
5. **48.81**
6. **11.31**
7. **81.87**
8. **82.87**
9. **8.13**
10. **74.05**
11. **9.46**
12. **69.44**