



Finding Angle between Two Points

Name: _____

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

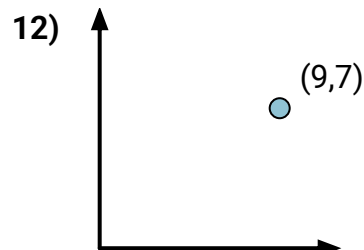
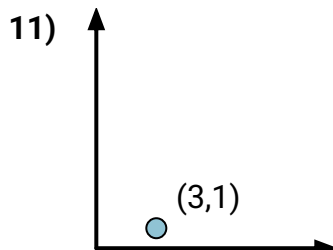
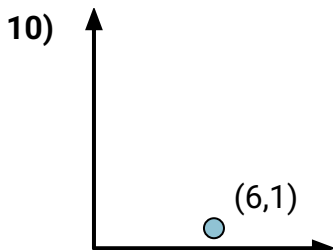
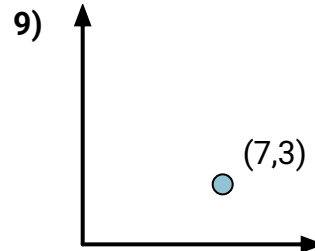
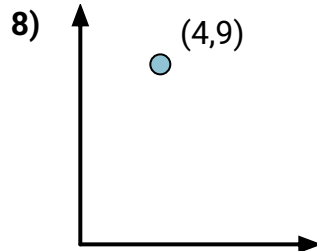
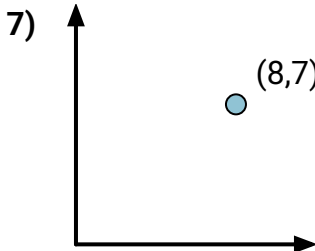
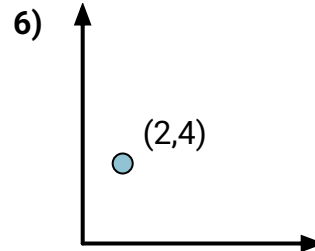
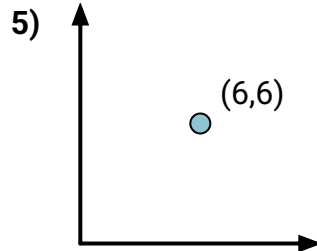
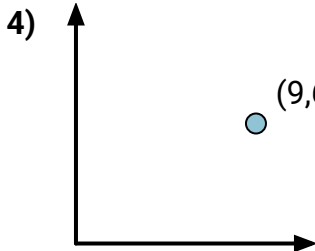
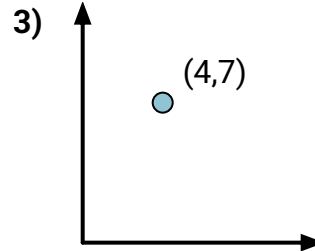
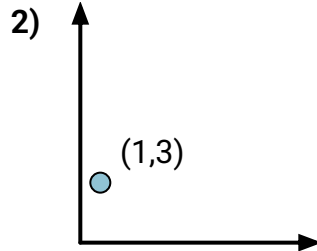
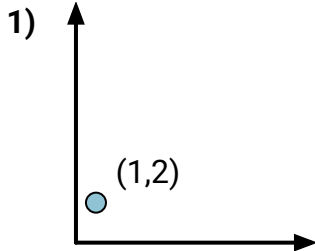
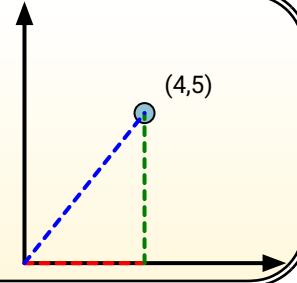
First find the slope.

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

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

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. _____



Finding Angle between Two Points

Name: **Answer Key**

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

First find the slope.

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

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

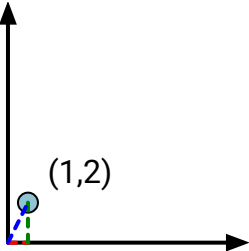
Then find the arc tangent (aka. inverse tangent) of the slope.

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

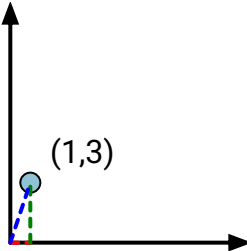
(4,5)

(4,5)

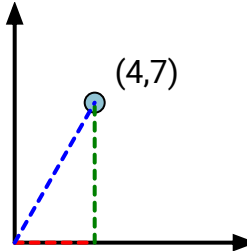
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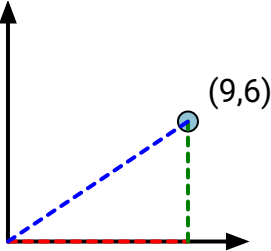
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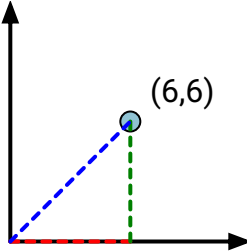
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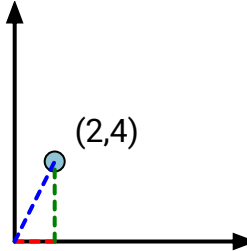
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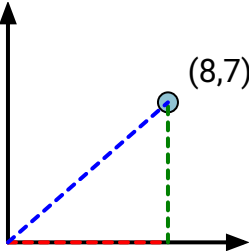
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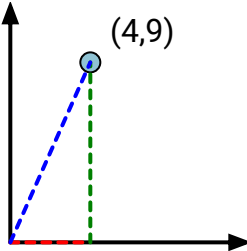
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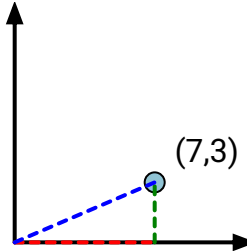
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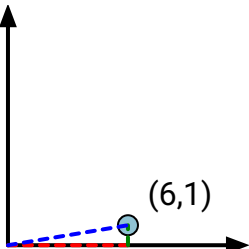
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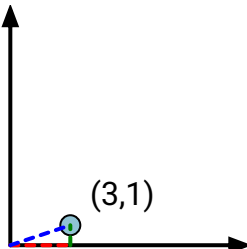
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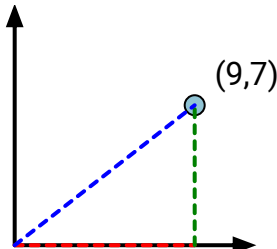
10)



11)



12)



Answers

1. **63.43**

2. **71.57**

3. **60.26**

4. **33.69**

5. **45.00**

6. **63.43**

7. **41.19**

8. **66.04**

9. **23.20**

10. **9.46**

11. **18.43**

12. **37.87**