

Finding Angle between Two Points

Name: _____

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

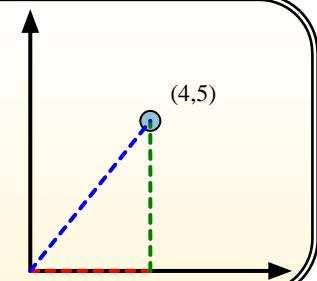
First find the slope.

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

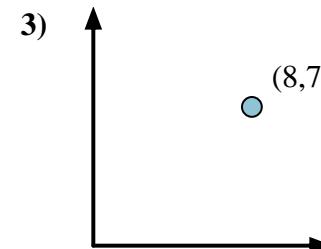
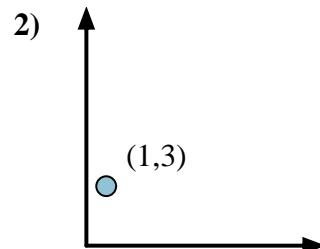
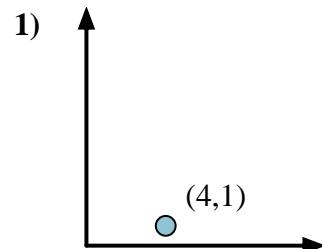
$$(5 - 0) / (4 - 0) = 1.25$$

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. _____

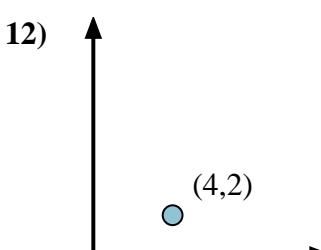
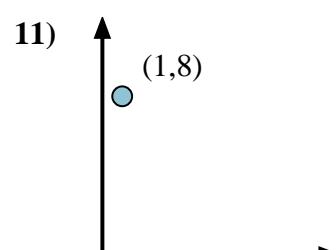
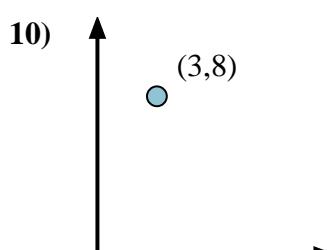
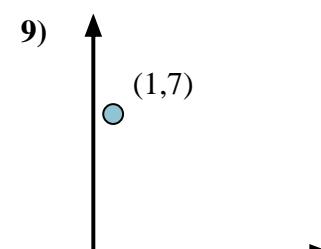
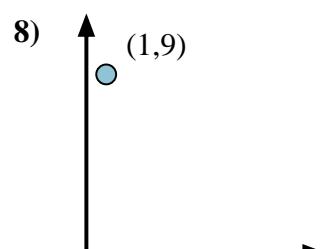
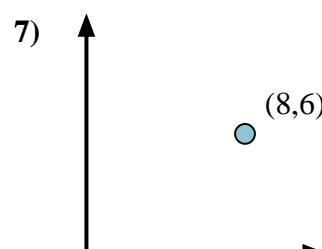
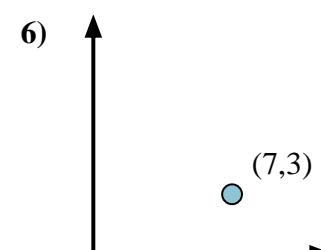
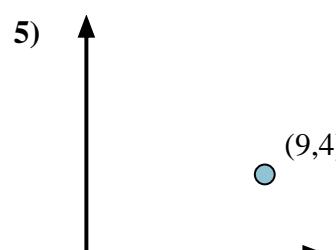
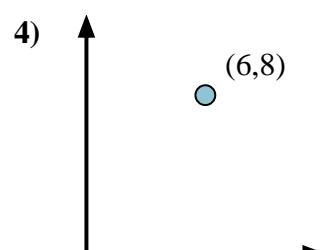
8. _____

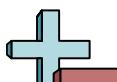
9. _____

10. _____

11. _____

12. _____





Finding Angle between Two Points

Name: **Answer Key**

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

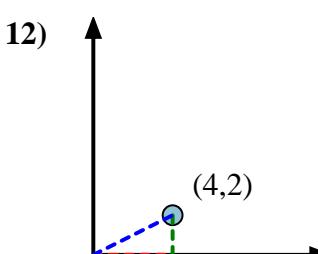
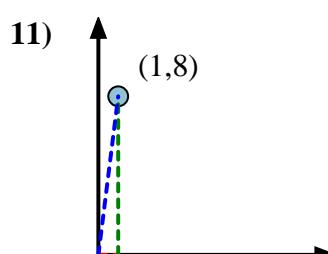
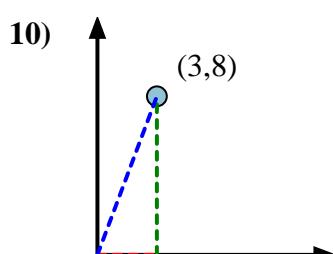
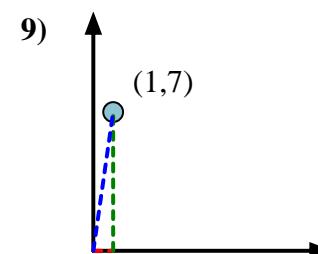
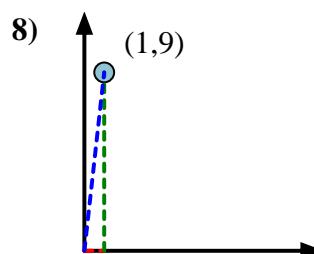
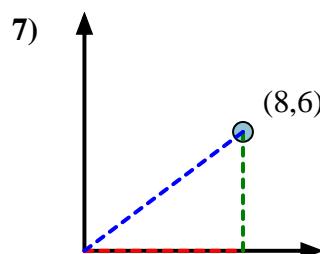
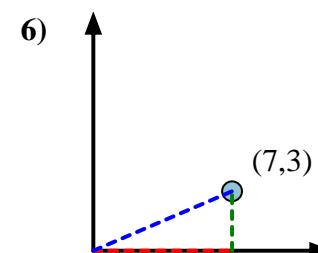
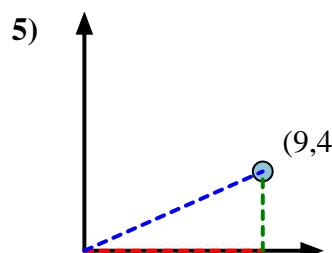
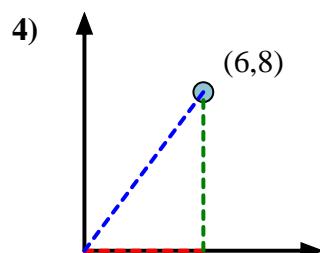
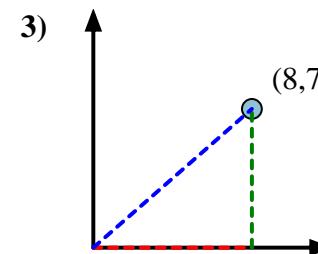
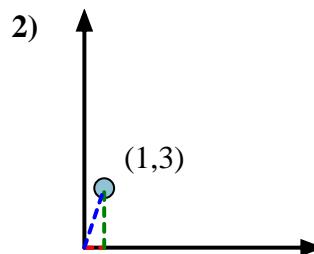
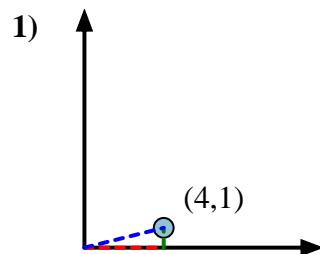
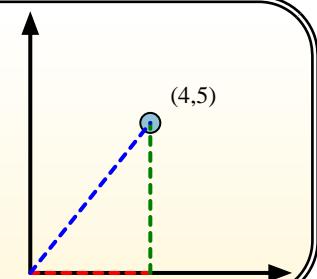
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Then find the arc tangent (aka. inverse tangent) of the slope.

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



Answers

1. **14.04**

2. **71.57**

3. **41.19**

4. **53.13**

5. **23.96**

6. **23.20**

7. **36.87**

8. **83.66**

9. **81.87**

10. **69.44**

11. **82.87**

12. **26.57**