



Finding Angle between Two Points

Name: _____

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

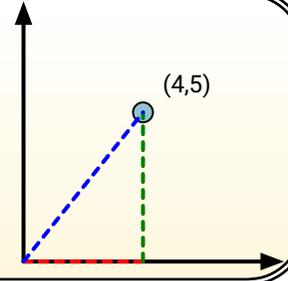
First find the slope.

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

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

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. _____

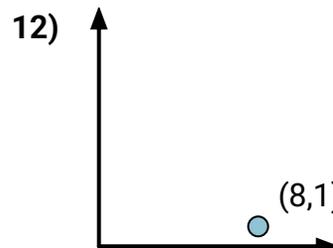
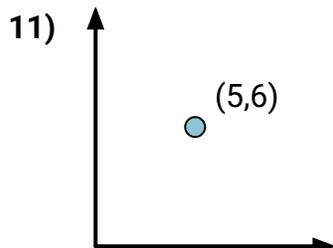
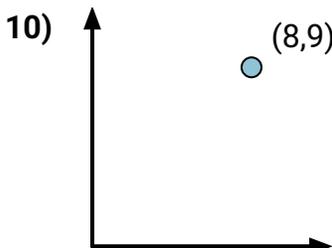
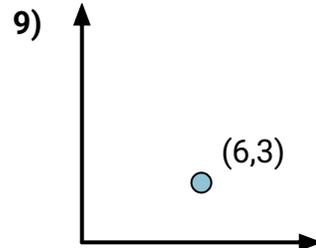
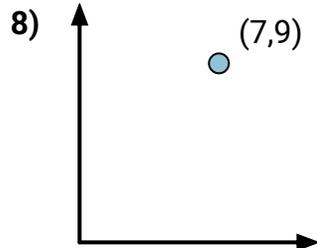
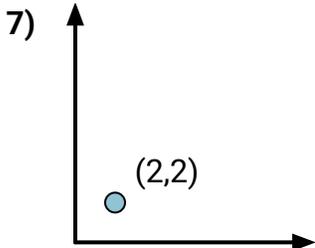
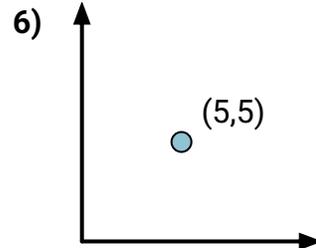
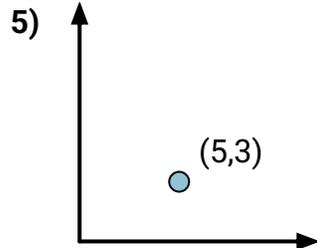
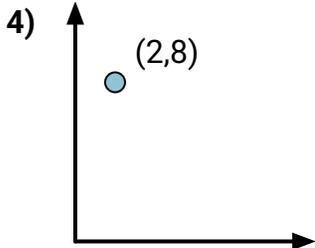
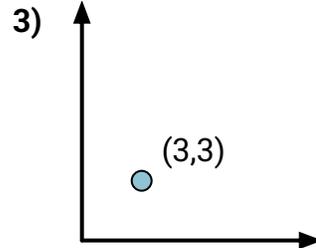
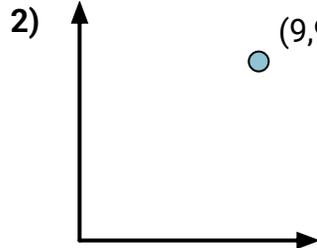
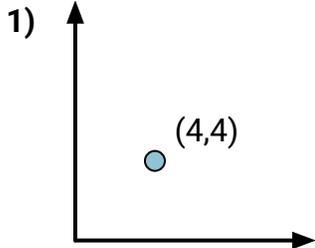
8. _____

9. _____

10. _____

11. _____

12. _____





Finding Angle between Two Points

Name: **Answer Key**

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

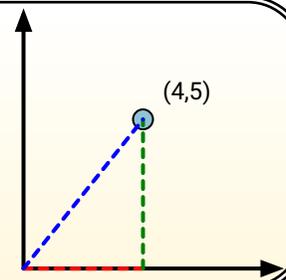
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$$\arctan(1.25) = 51.34^\circ$$



Answers

1. **45.00**

2. **45.00**

3. **45.00**

4. **75.96**

5. **30.96**

6. **45.00**

7. **45.00**

8. **52.13**

9. **26.57**

10. **48.37**

11. **50.19**

12. **7.13**

