

Finding Angle between Two Points

Name: _____

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

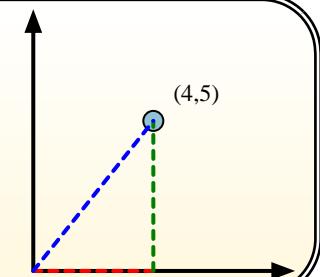
First find the slope.

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

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

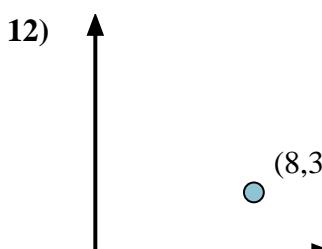
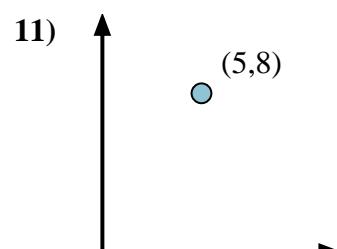
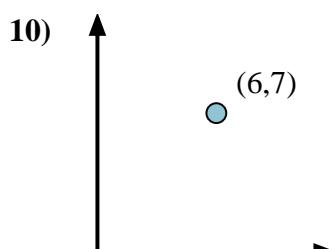
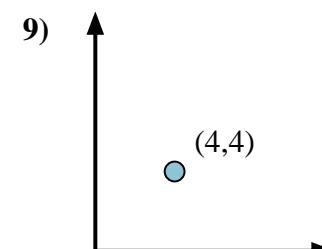
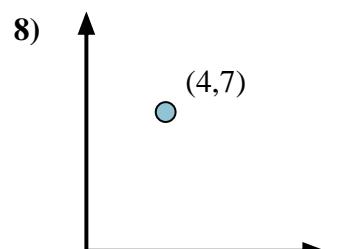
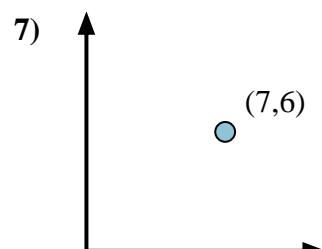
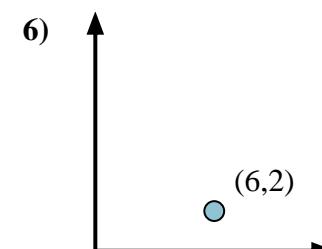
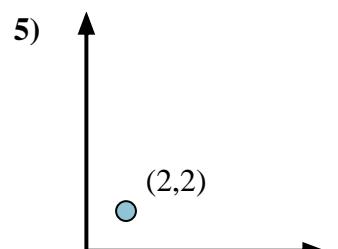
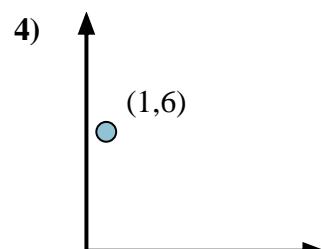
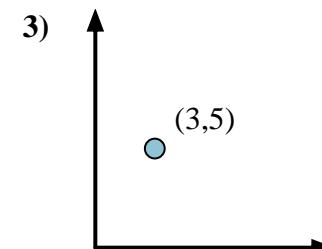
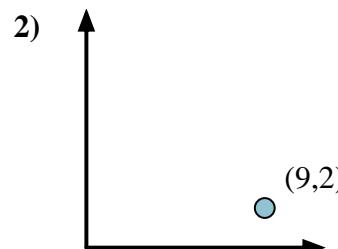
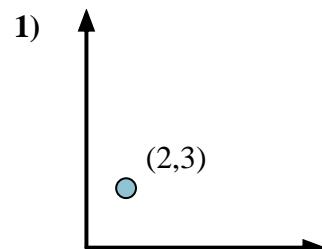
Then find the arc tangent (aka. inverse tangent) of the slope.

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



Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____



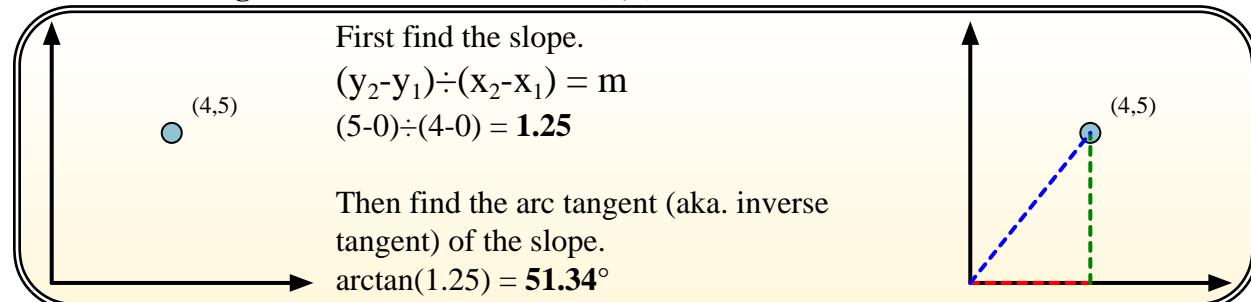
1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								



Finding Angle between Two Points

Name: **Answer Key**

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



Answers

- 1)
- 2)
- 3)
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)
- 10)
- 11)
- 12)

1. **56.31**
2. **12.53**
3. **59.04**
4. **80.54**
5. **45.00**
6. **18.43**
7. **40.60**
8. **60.26**
9. **45.00**
10. **49.40**
11. **57.99**
12. **20.56**