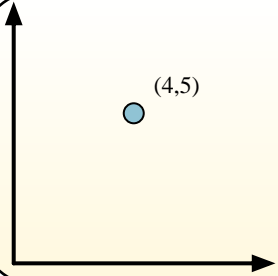


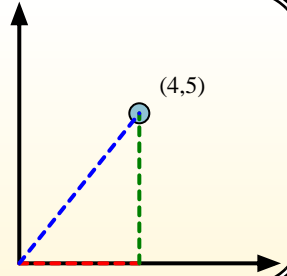


Calculate the angle of the circle relative to (0,0).

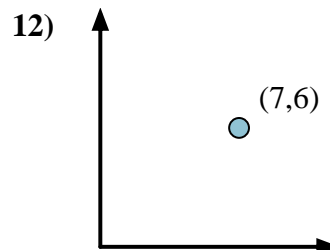
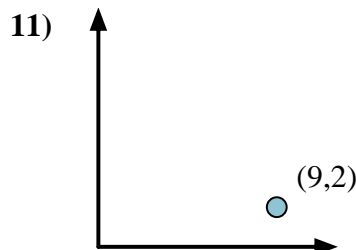
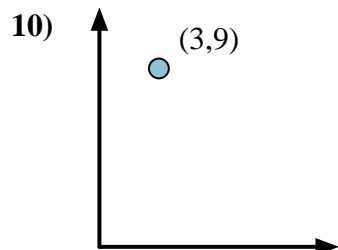
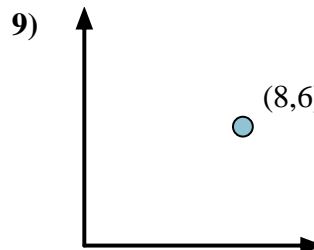
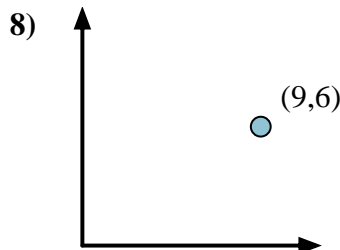
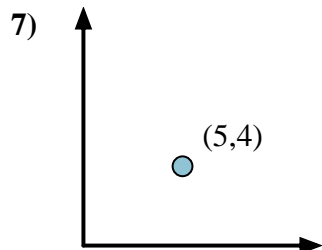
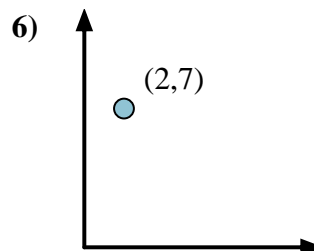
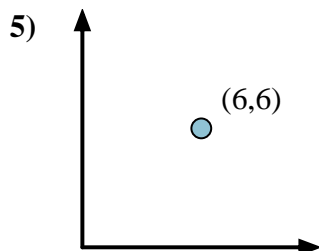
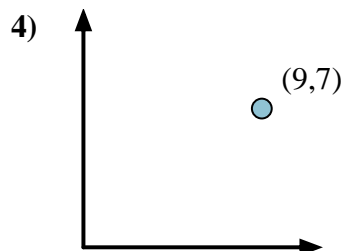
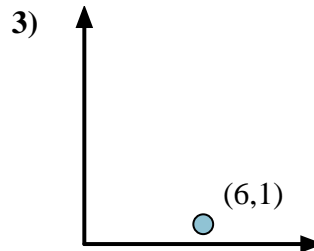
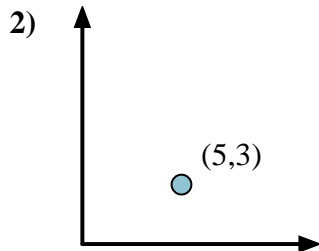
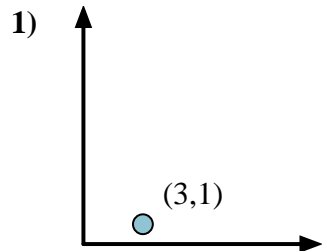


First find the slope.  
 $(y_2 - y_1) \div (x_2 - x_1) = m$   
 $(5 - 0) \div (4 - 0) = 1.25$

Then find the arc tangent (aka. inverse tangent) of the slope.  
 $\arctan(1.25) = 51.34^\circ$



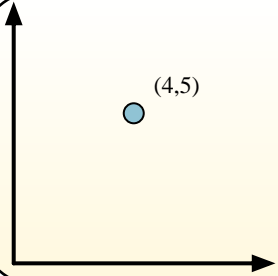
## Answers



1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_

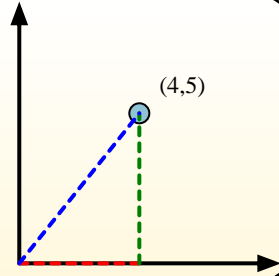


Calculate the angle of the circle relative to (0,0).

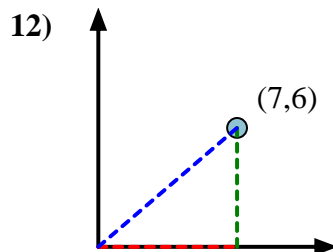
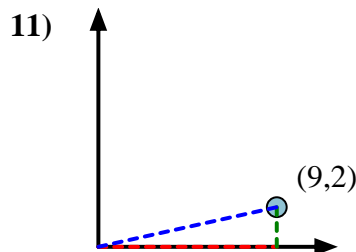
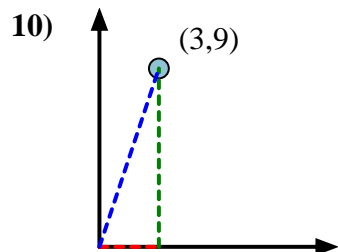
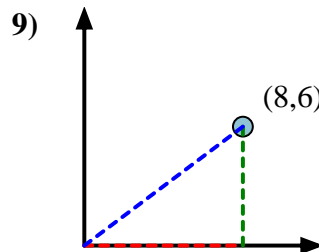
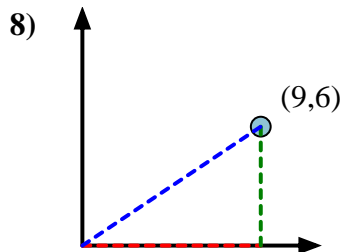
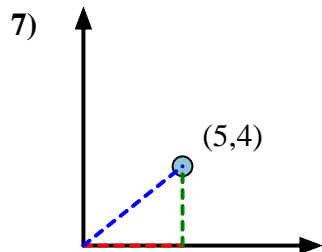
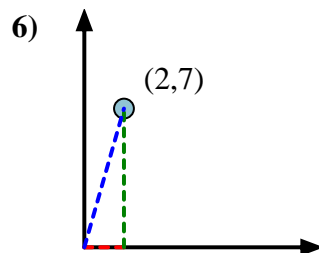
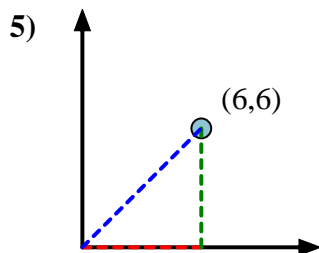
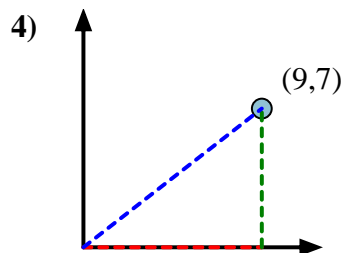
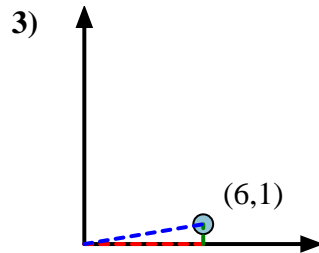
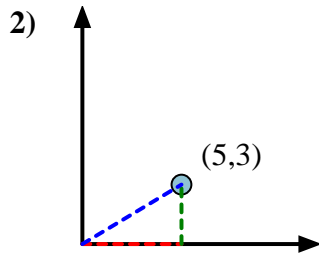
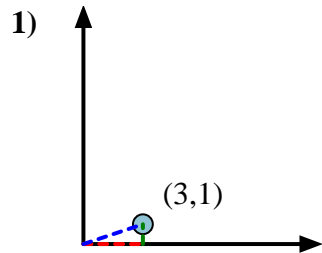


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Answers



1. **18.43**

2. **30.96**

3. **9.46**

4. **37.87**

5. **45.00**

6. **74.05**

7. **38.66**

8. **33.69**

9. **36.87**

10. **71.57**

11. **12.53**

12. **40.60**