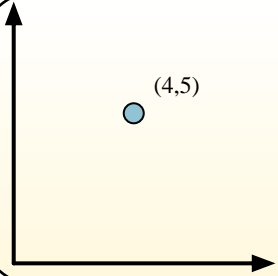


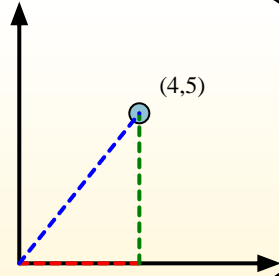


Calculate the angle of the circle relative to (0,0).

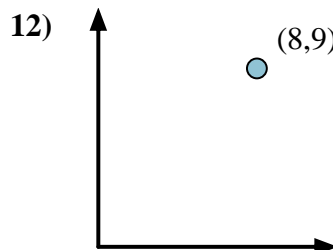
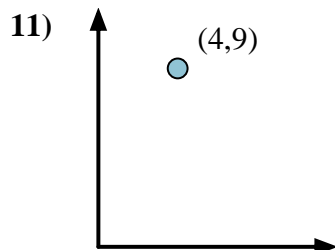
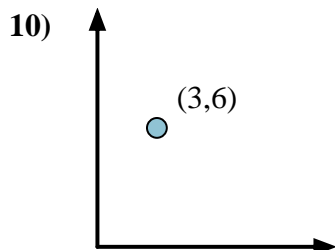
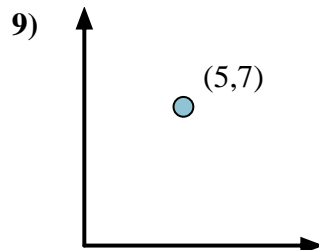
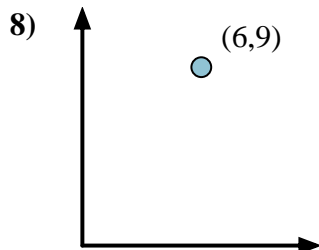
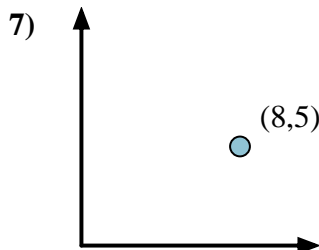
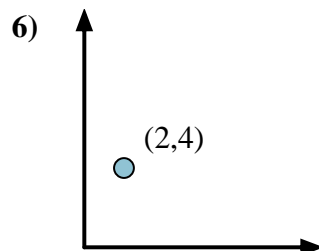
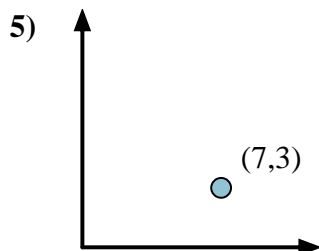
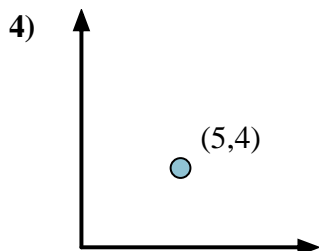
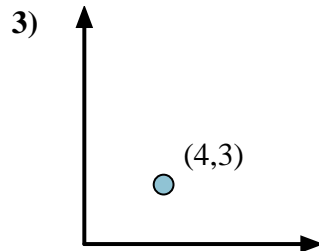
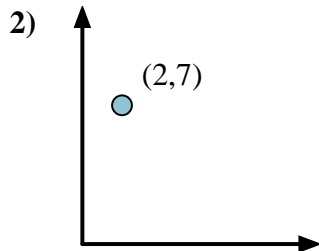
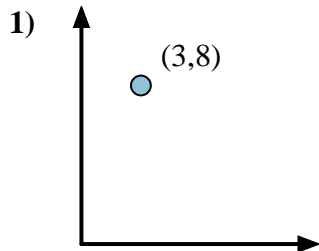


First find the slope.  
 $(y_2 - y_1) \div (x_2 - x_1) = m$   
 $(5 - 0) \div (4 - 0) = 1.25$

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).

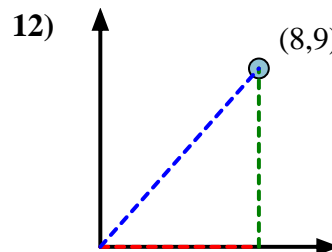
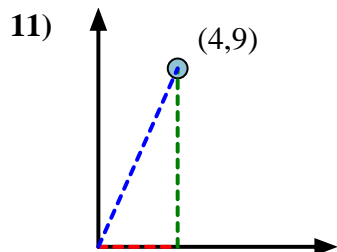
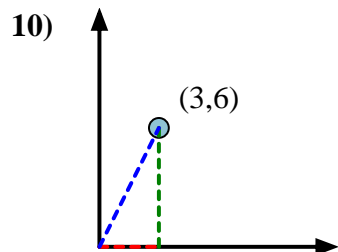
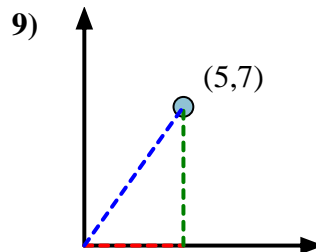
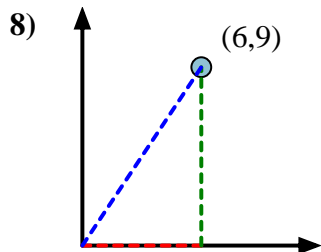
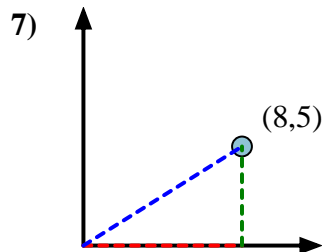
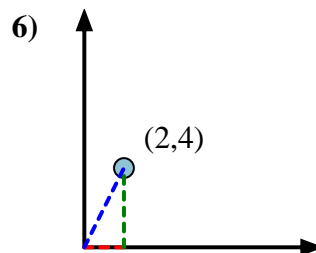
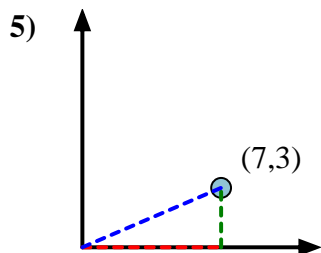
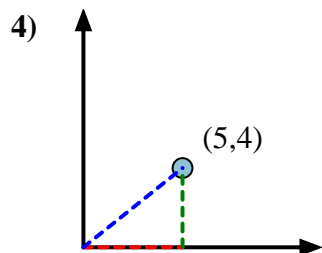
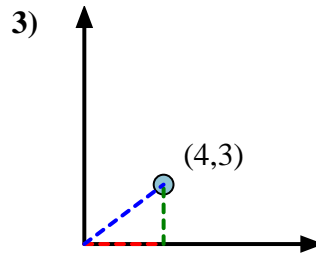
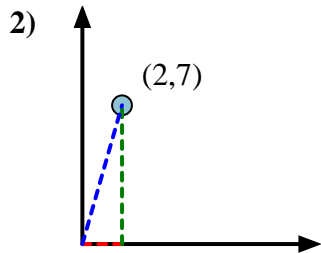
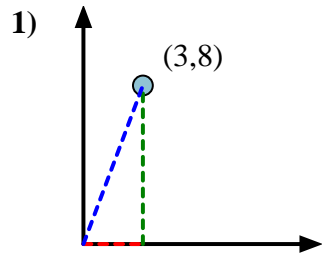


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 $\arctan(1.25) = 51.34^\circ$



Answers



1. 69.44
2. 74.05
3. 36.87
4. 38.66
5. 23.20
6. 63.43
7. 32.01
8. 56.31
9. 54.46
10. 63.43
11. 66.04
12. 48.37