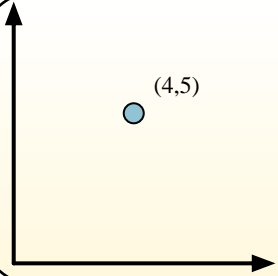


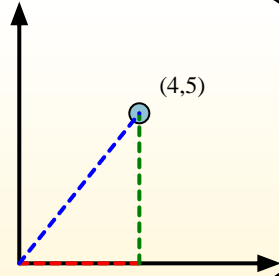


Calculate the angle of the circle relative to (0,0).

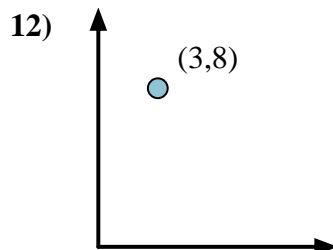
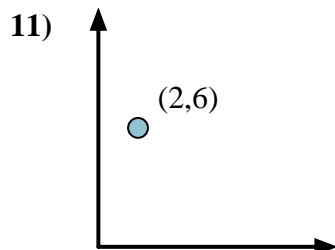
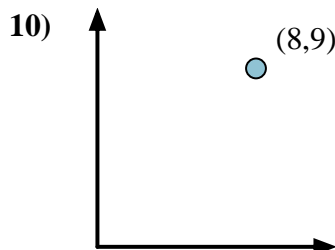
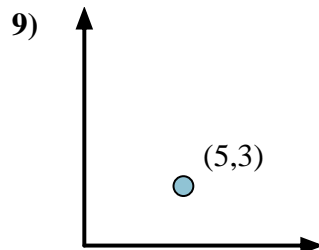
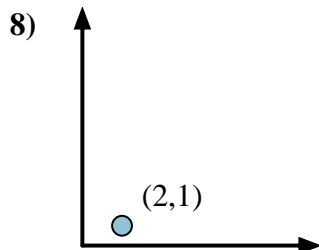
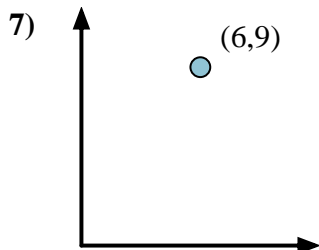
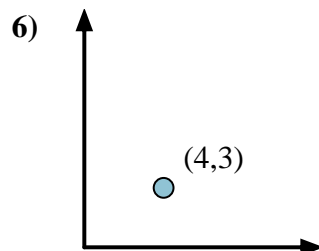
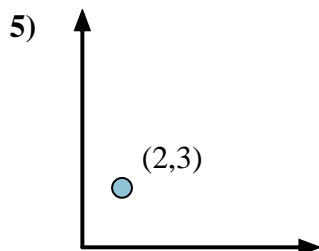
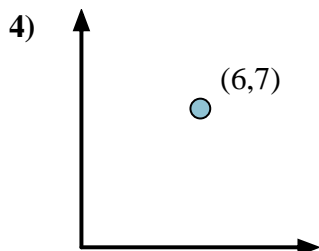
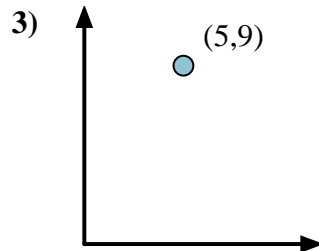
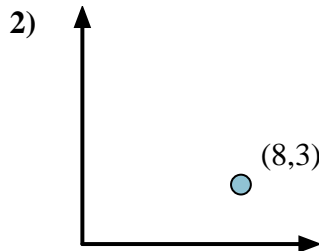
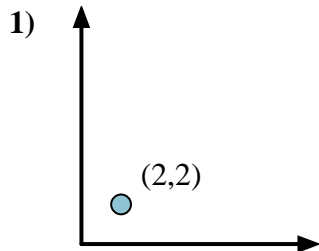


First find the slope.  
 $(y_2 - y_1) \div (x_2 - x_1) = m$   
 $(5 - 0) \div (4 - 0) = 1.25$

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



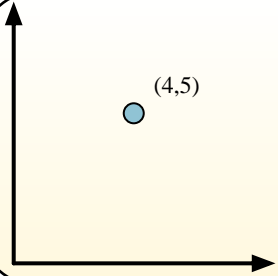
## Answers



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

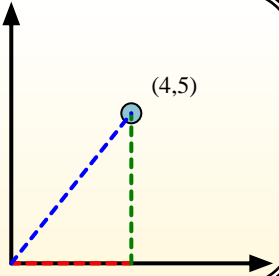


Calculate the angle of the circle relative to (0,0).

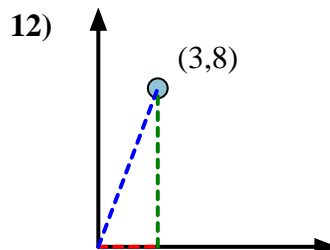
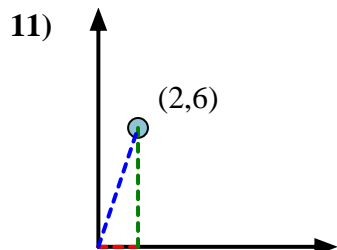
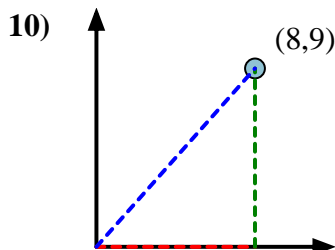
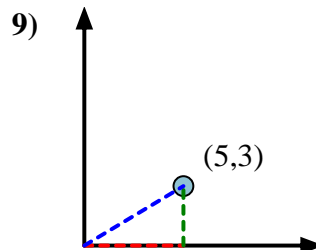
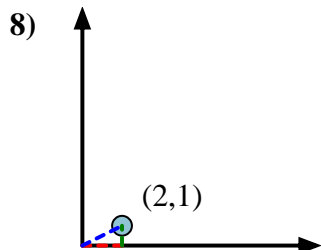
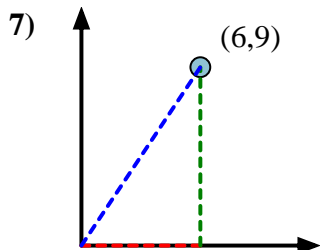
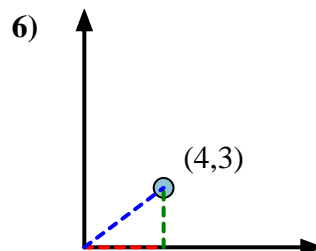
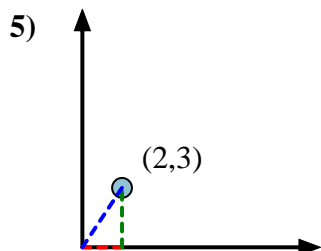
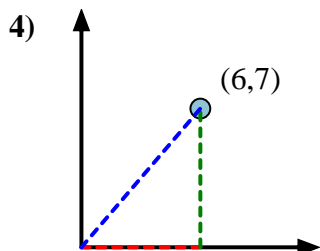
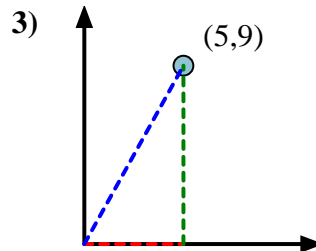
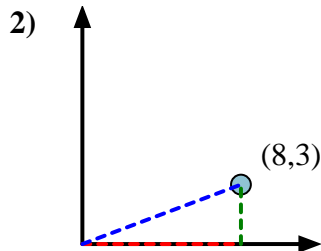
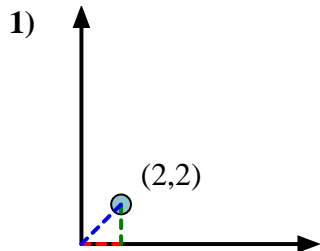


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 $\arctan(1.25) = 51.34^\circ$



Answers



1. 45.00
2. 20.56
3. 60.95
4. 49.40
5. 56.31
6. 36.87
7. 56.31
8. 26.57
9. 30.96
10. 48.37
11. 71.57
12. 69.44