

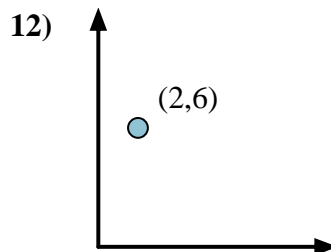
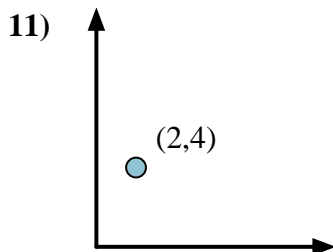
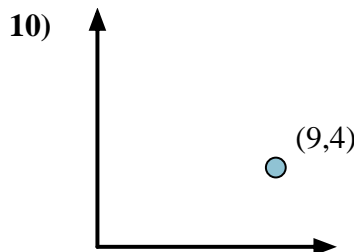
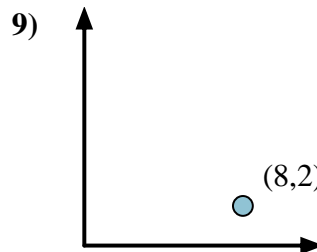
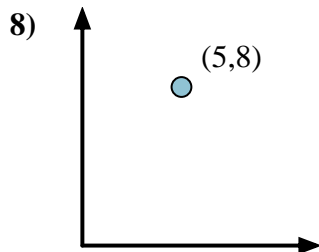
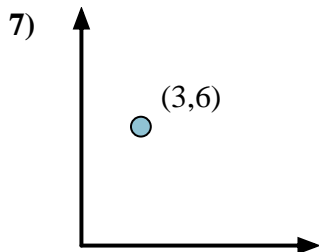
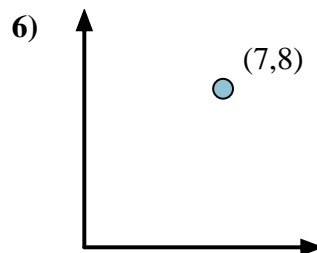
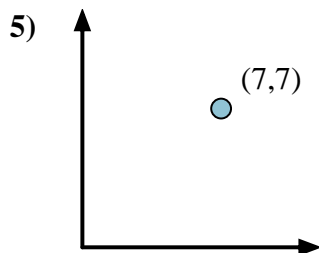
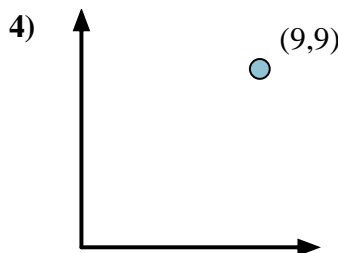
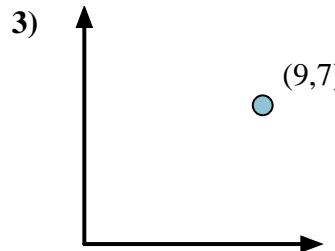
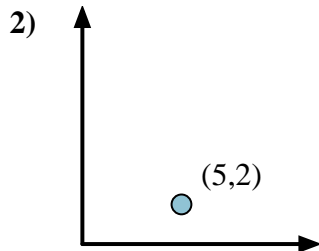
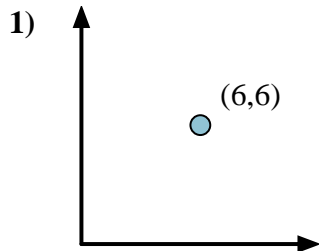


Calculate the angle of the circle relative to (0,0).

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

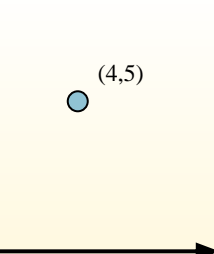
## Answers



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

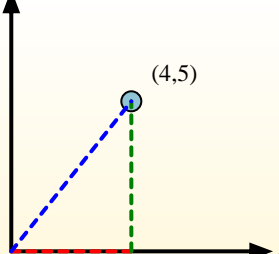


Calculate the angle of the circle relative to (0,0).

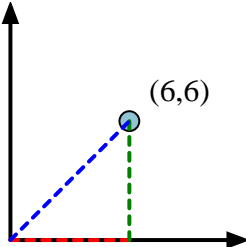


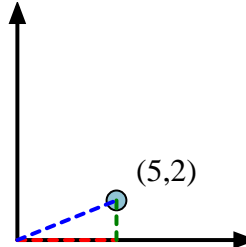
First find the slope.  
 $(y_2 - y_1) \div (x_2 - x_1) = m$   
 $(5 - 0) \div (4 - 0) = 1.25$

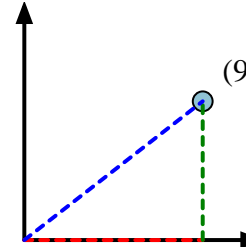
Then find the arc tangent (aka. inverse tangent) of the slope.  
 $\arctan(1.25) = 51.34^\circ$

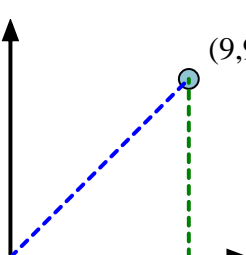


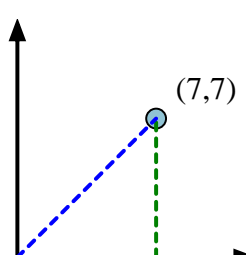
**Answers**

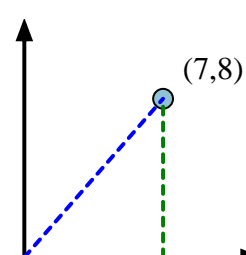
- 1) 

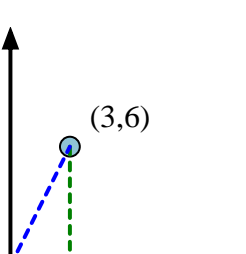
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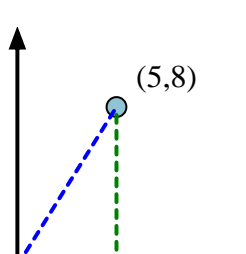
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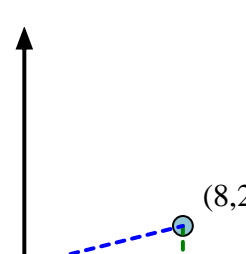
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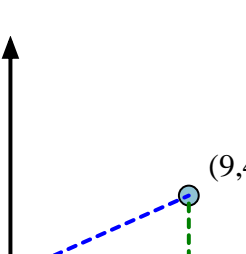
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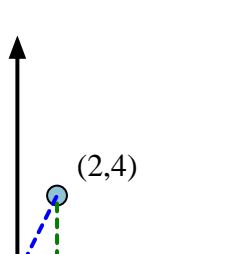
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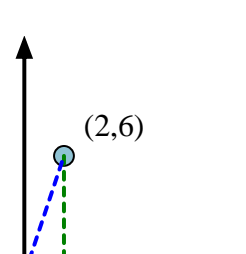
7) 

8) 

9) 

10) 

11) 

12) 

1. 45.00
2. 21.80
3. 37.87
4. 45.00
5. 45.00
6. 48.81
7. 63.43
8. 57.99
9. 14.04
10. 23.96
11. 63.43
12. 71.57