

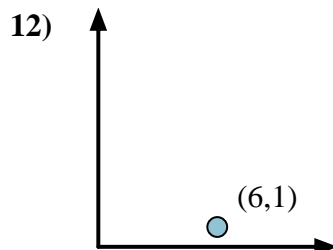
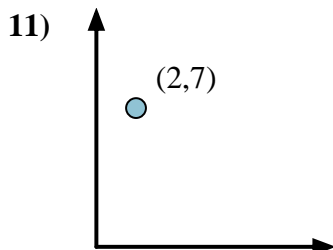
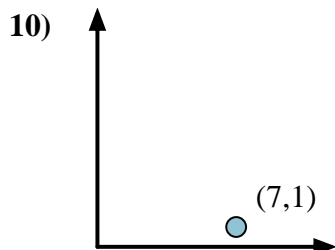
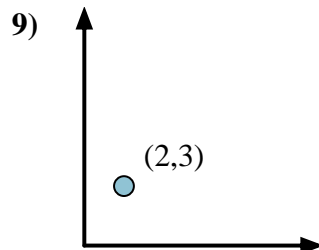
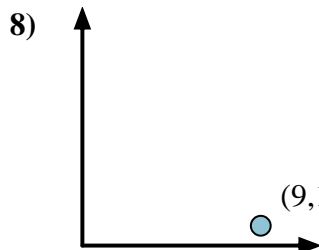
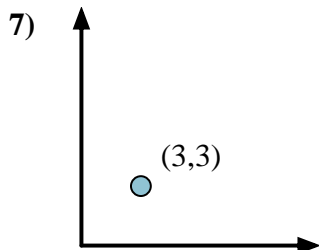
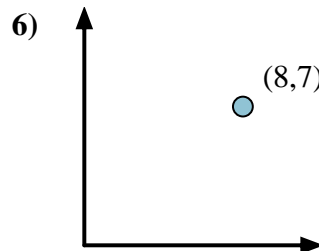
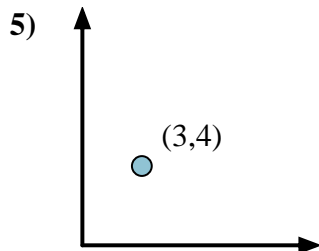
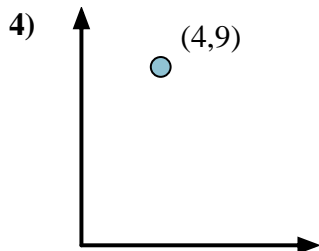
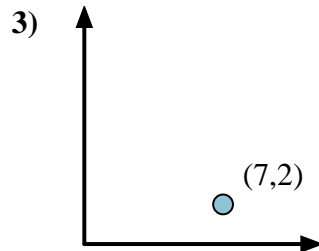
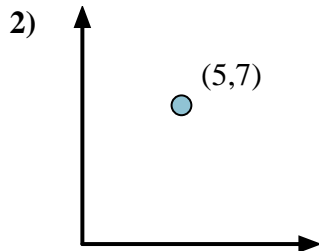
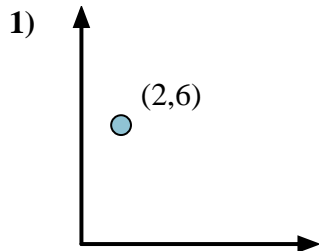


Calculate the angle of the circle relative to (0,0).

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).

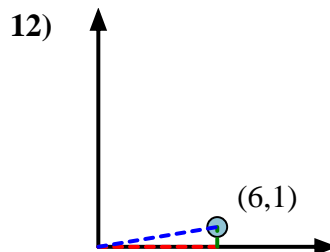
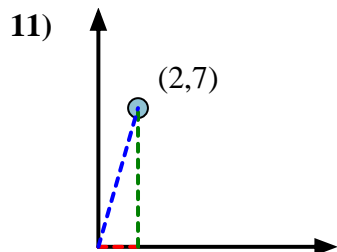
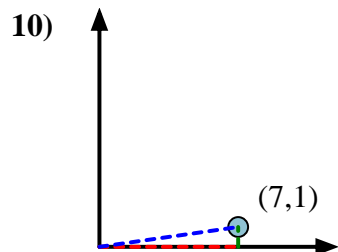
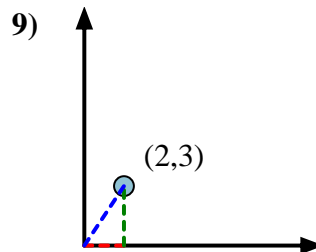
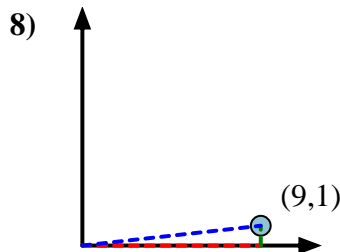
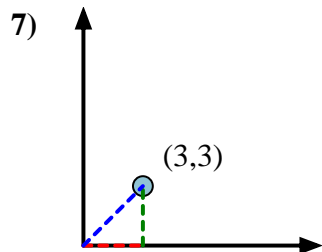
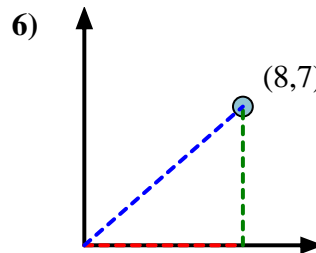
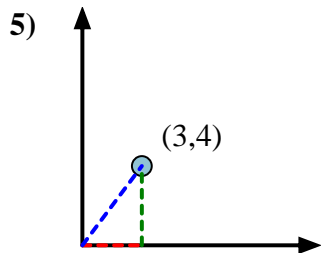
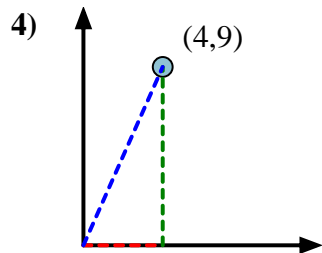
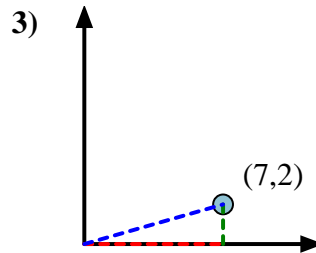
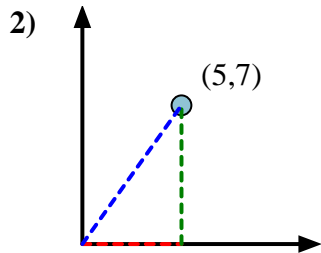
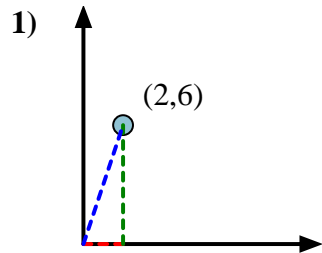


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Then find the arc tangent (aka. inverse tangent) of the slope.  
 $\arctan(1.25) = 51.34^\circ$



**Answers**



1. 71.57
2. 54.46
3. 15.95
4. 66.04
5. 53.13
6. 41.19
7. 45.00
8. 6.34
9. 56.31
10. 8.13
11. 74.05
12. 9.46