

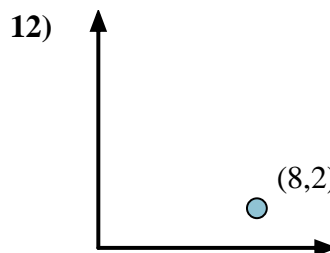
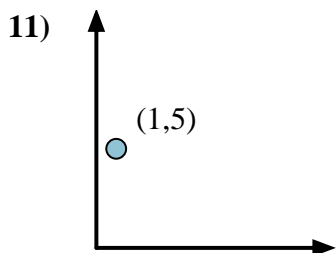
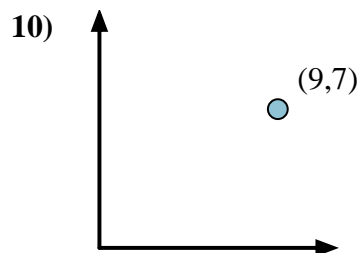
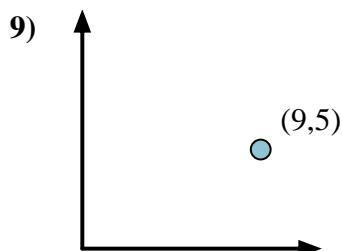
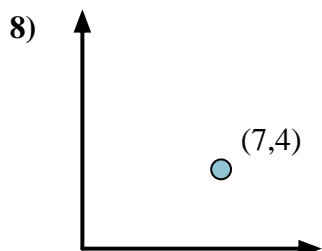
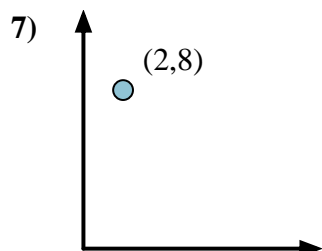
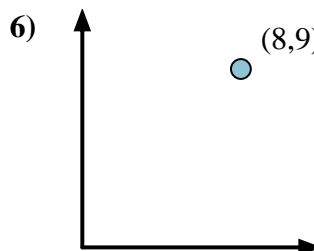
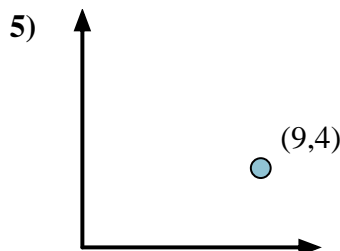
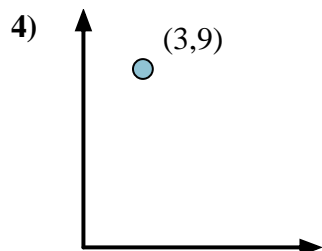
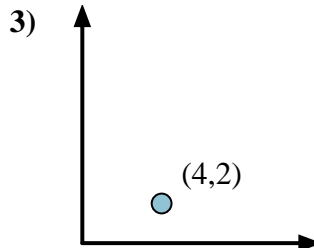
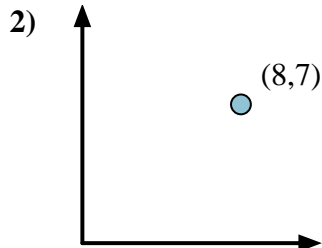
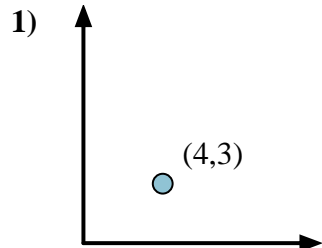


Calculate the angle of the circle relative to (0,0).

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

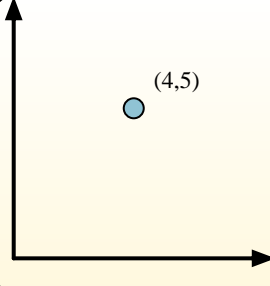
Answers



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

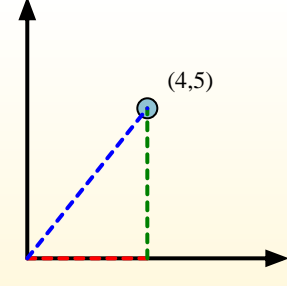


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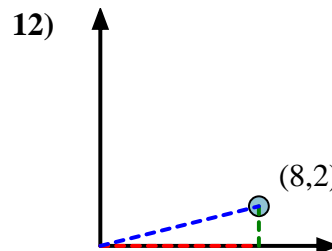
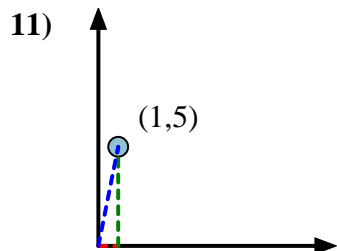
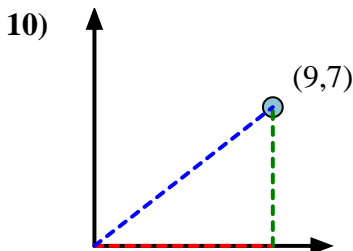
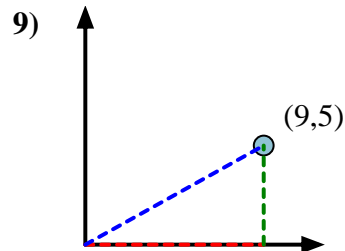
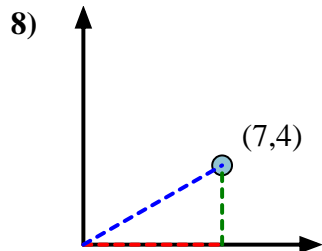
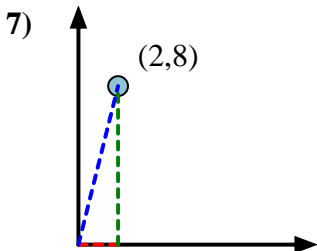
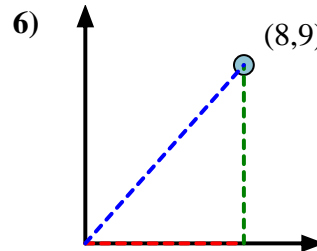
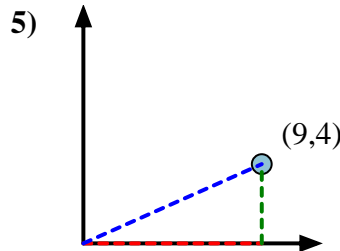
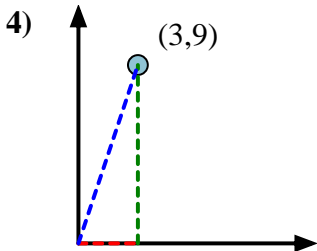
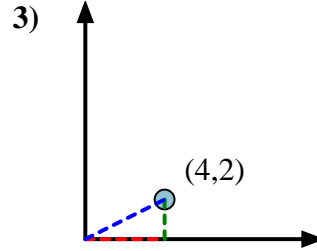
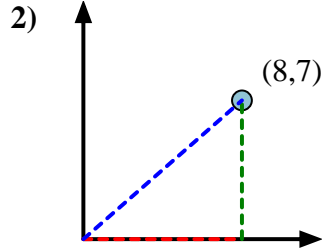
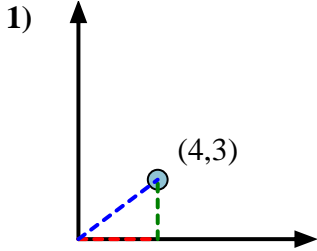


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 $\arctan(1.25) = 51.34^\circ$



Answers



1. **36.87**

2. **41.19**

3. **26.57**

4. **71.57**

5. **23.96**

6. **48.37**

7. **75.96**

8. **29.74**

9. **29.05**

10. **37.87**

11. **78.69**

12. **14.04**