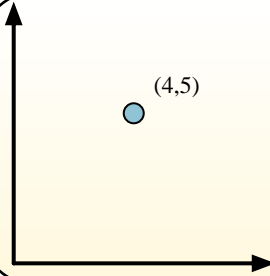


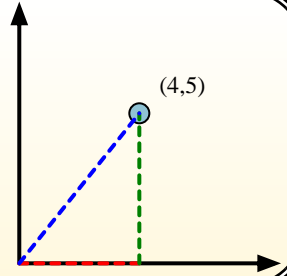


Calculate the angle of the circle relative to (0,0).

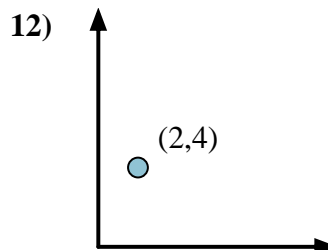
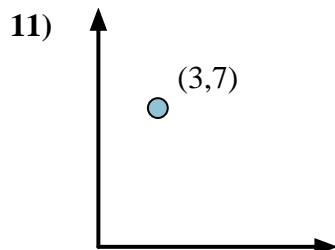
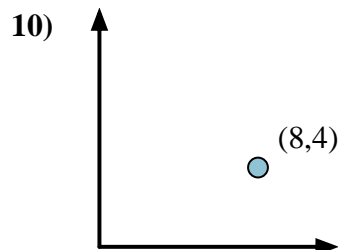
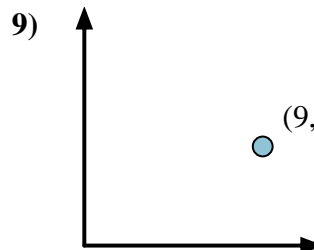
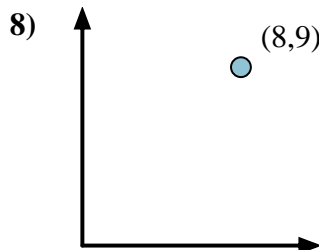
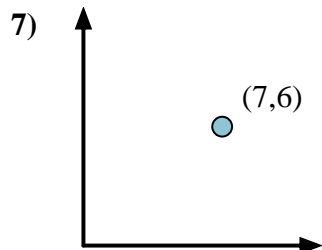
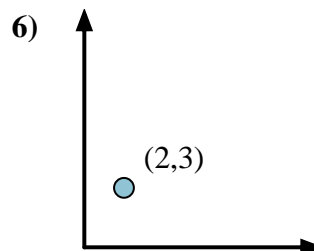
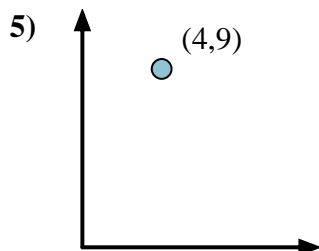
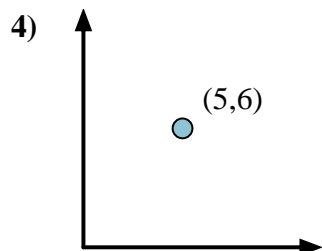
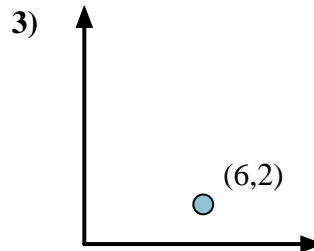
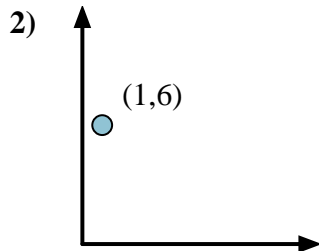
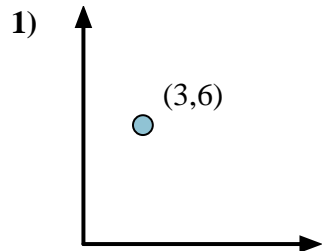


First find the slope.
 $(y_2 - y_1) \div (x_2 - x_1) = m$
 $(5 - 0) \div (4 - 0) = 1.25$

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).

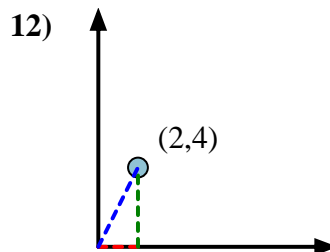
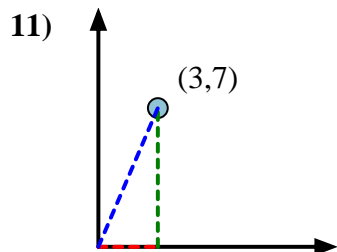
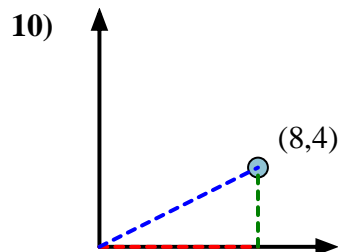
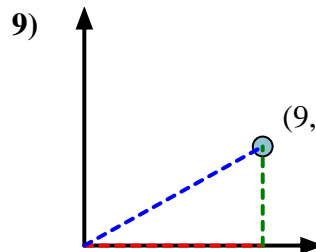
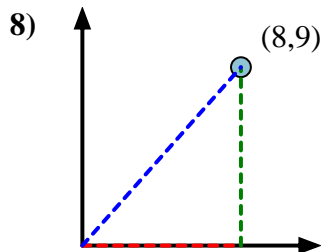
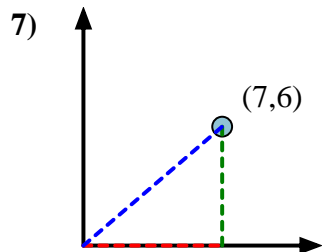
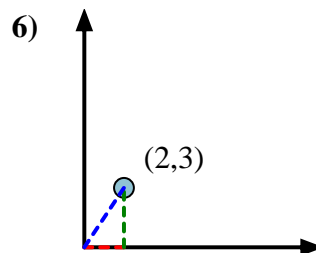
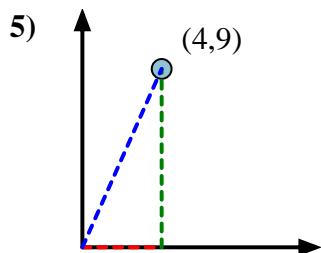
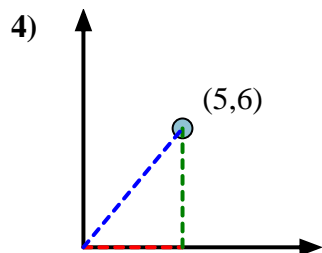
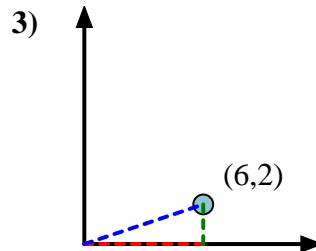
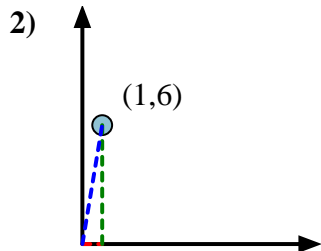
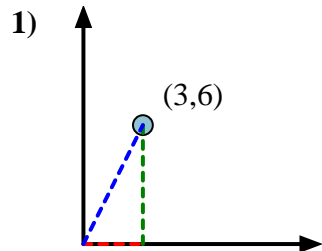


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 $\arctan(1.25) = 51.34^\circ$



Answers



1. 63.43
2. 80.54
3. 18.43
4. 50.19
5. 66.04
6. 56.31
7. 40.60
8. 48.37
9. 29.05
10. 26.57
11. 66.80
12. 63.43