



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

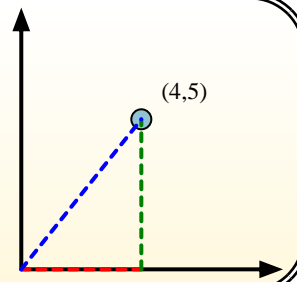
First find the slope.

$$(y_2 - y_1) \div (x_2 - x_1) = m$$

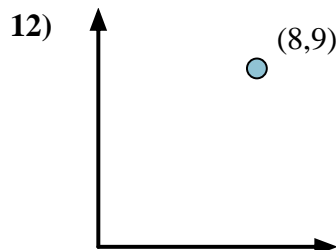
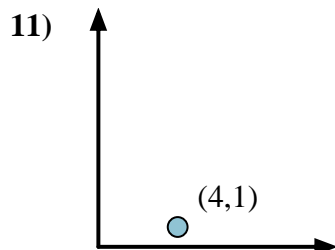
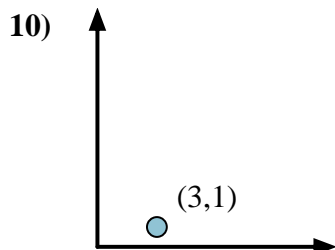
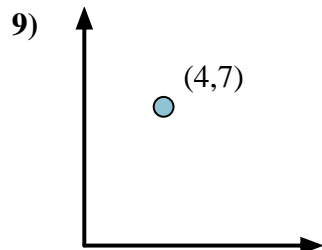
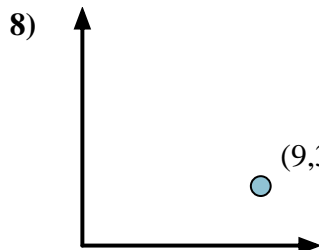
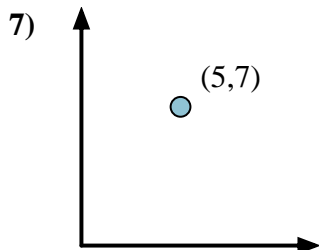
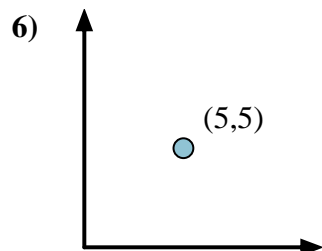
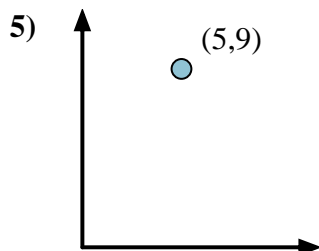
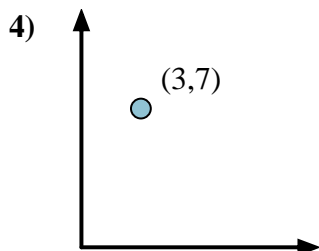
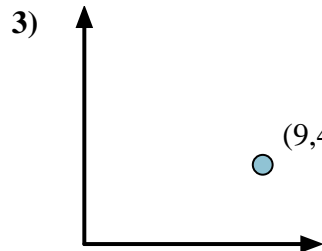
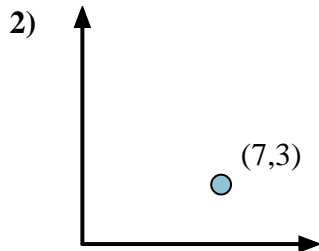
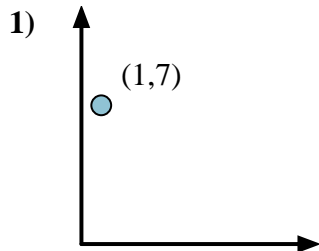
$$(5 - 0) \div (4 - 0) = 1.25$$

Then find the arc tangent (aka. inverse tangent) of the slope.

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



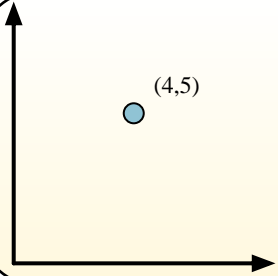
Answers



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

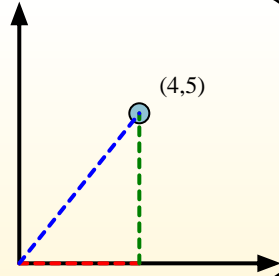


Calculate the angle of the circle relative to (0,0).

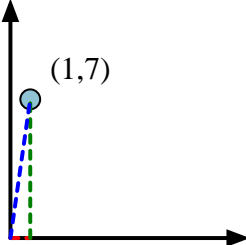


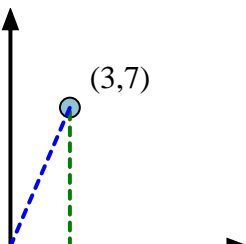
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 $(y_2 - y_1) \div (x_2 - x_1) = m$
 $(5 - 0) \div (4 - 0) = 1.25$

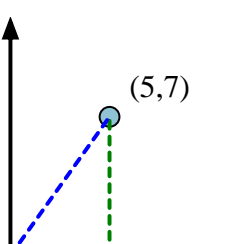
Then find the arc tangent (aka. inverse tangent) of the slope.
 $\arctan(1.25) = 51.34^\circ$

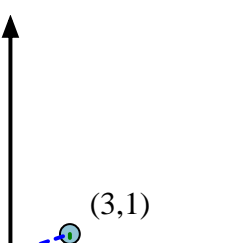


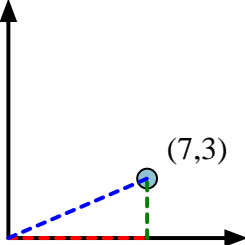
Answers

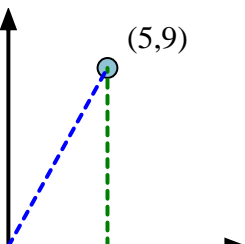
- 1) 

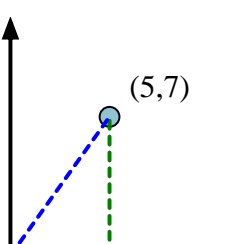
4) 

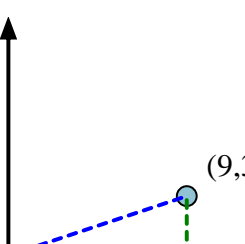
7) 

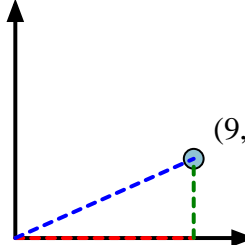
10) 

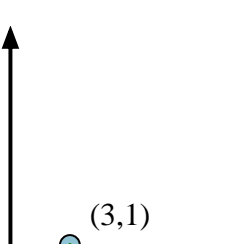
2) 

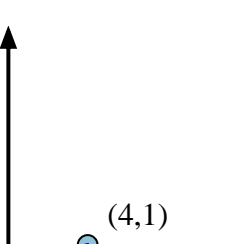
5) 

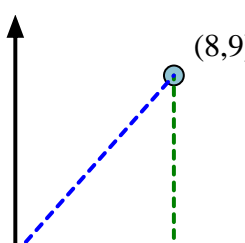
8) 

11) 

3) 

6) 

9) 

12) 

1. 81.87
2. 23.20
3. 23.96
4. 66.80
5. 60.95
6. 45.00
7. 54.46
8. 18.43
9. 60.26
10. 18.43
11. 14.04
12. 48.37