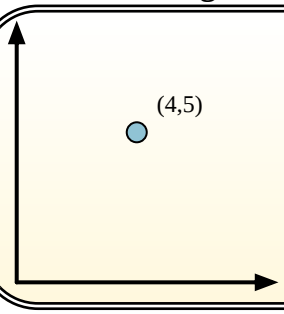
Finding Angle between Two Points

Name:

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



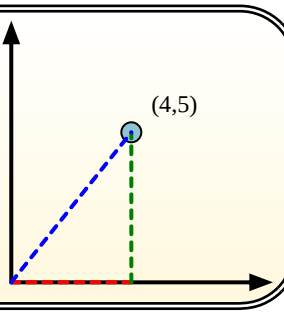
First find the slope.

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

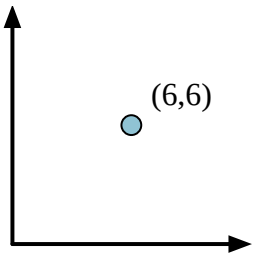
(5-0)÷(4-0) = **1.25**

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

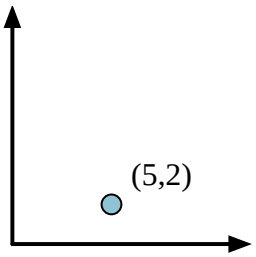
arctan(1.25) = **51.34°**



1)



2)



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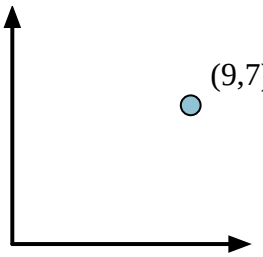

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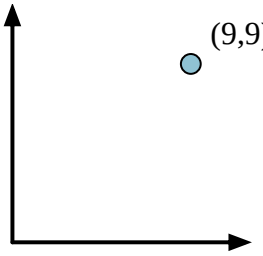
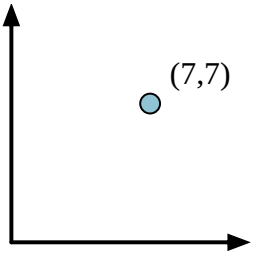


5)



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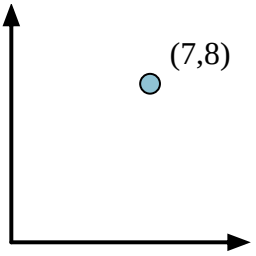

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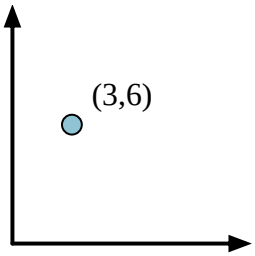

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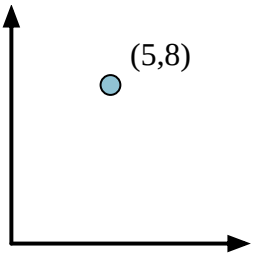
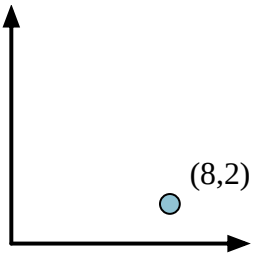
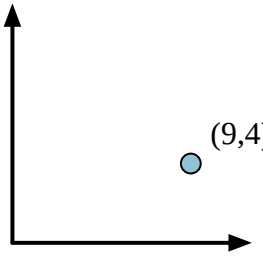


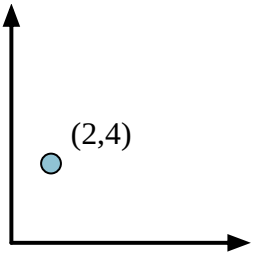
9)



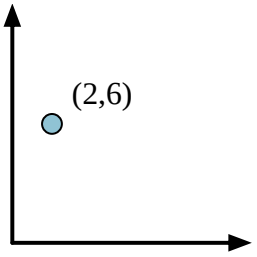
10)



11)



12)

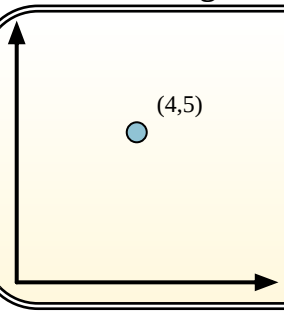


Answers

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

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

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



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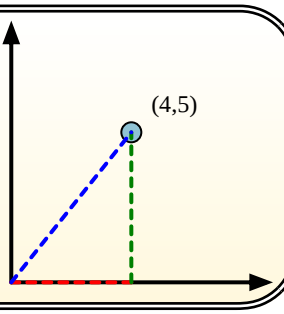
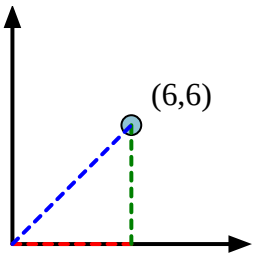
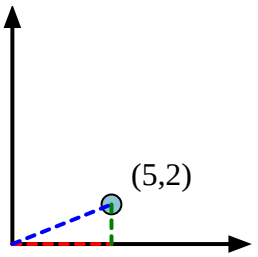


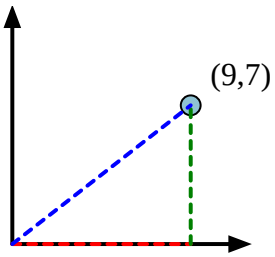
1)



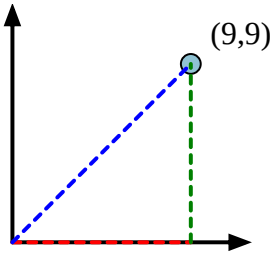
2)



3)



4)



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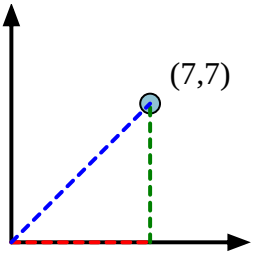

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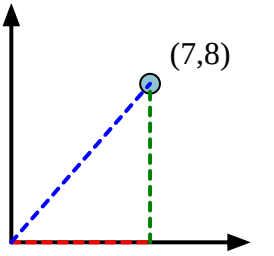

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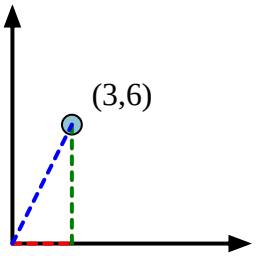
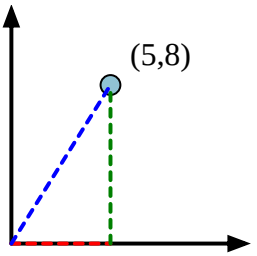
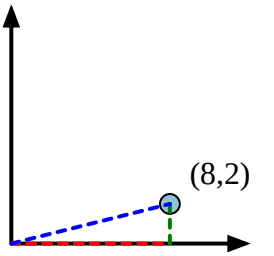


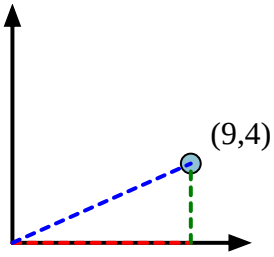
8)



9)



10)



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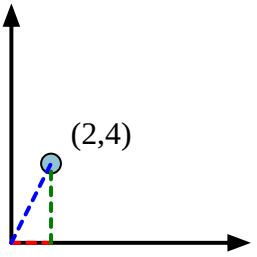
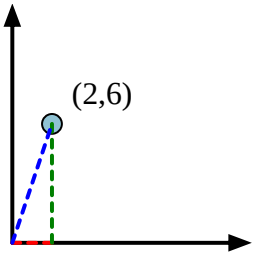


12)



Answers

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**

1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								