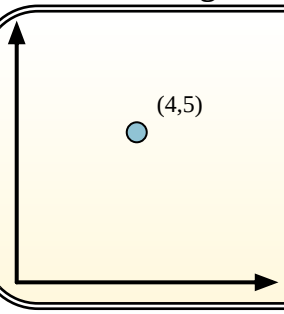
Finding Angle between Two Points

Name:

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



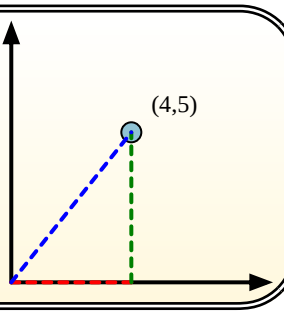
First find the slope.

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

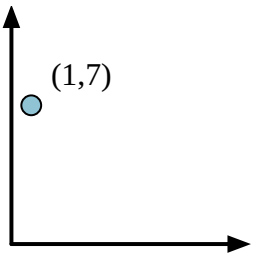
$(5-0)\div(4-0) =$ **1.25**

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

arctan(1.25) = **51.34°**



1)



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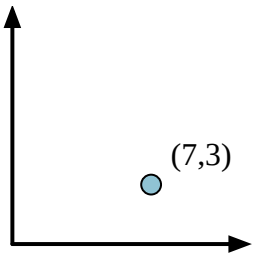

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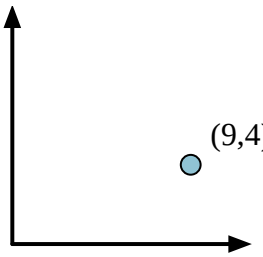

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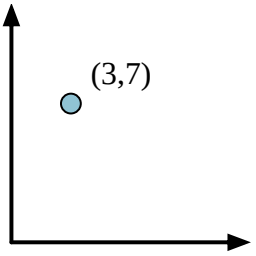

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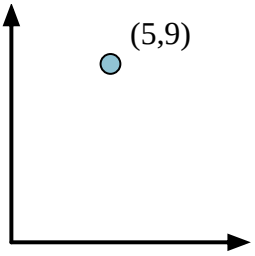

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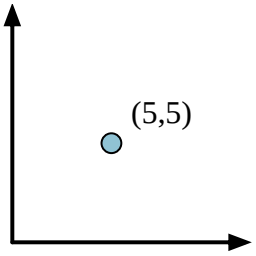

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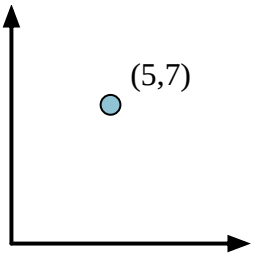

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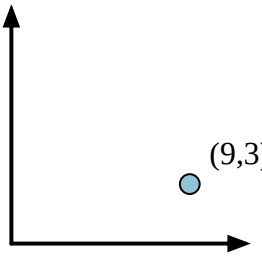

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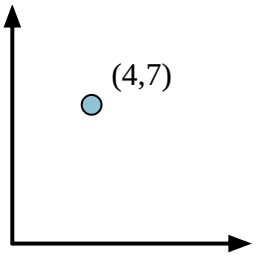

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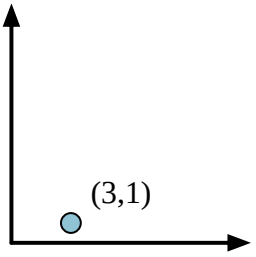

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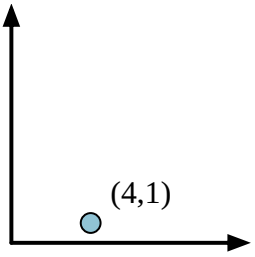

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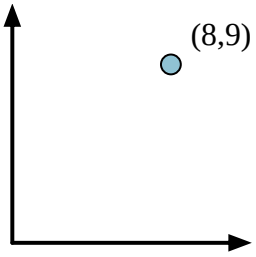


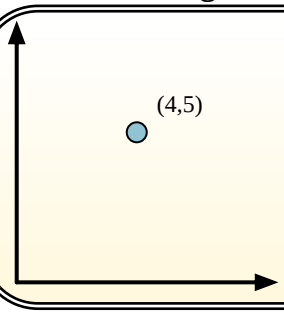
Answers

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								

Finding Angle between Two Points Name: **Answer Key**

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



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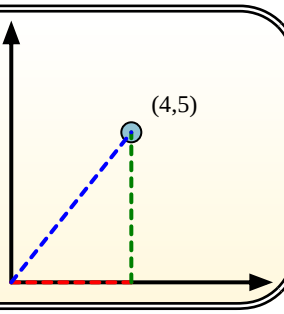
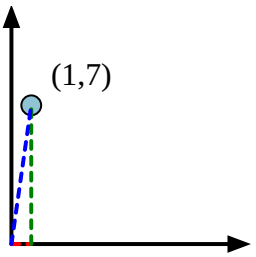
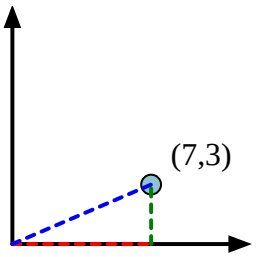


1)



2)



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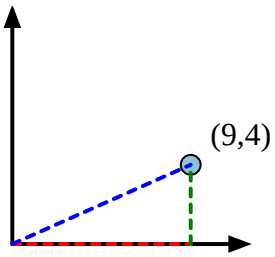
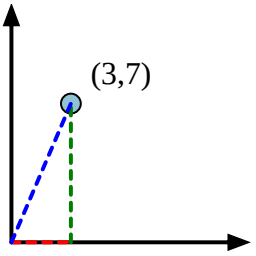


4)



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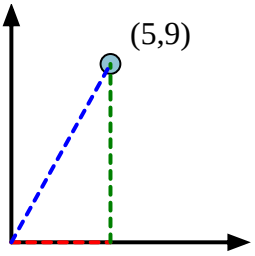

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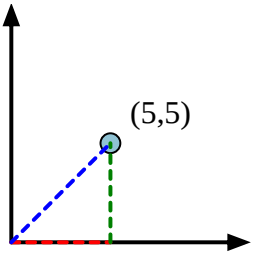

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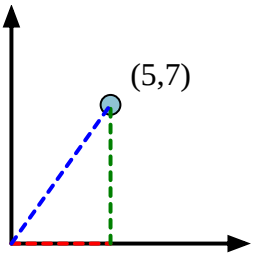

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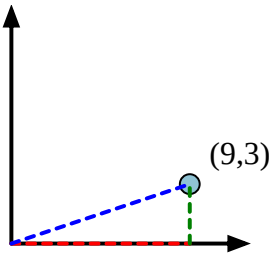

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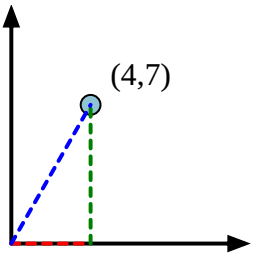

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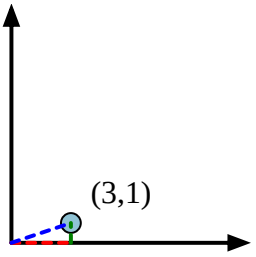

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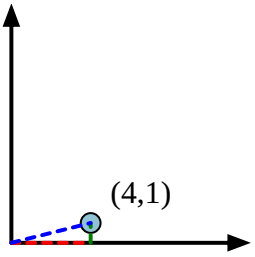

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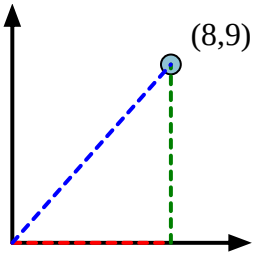

Answers

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**

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