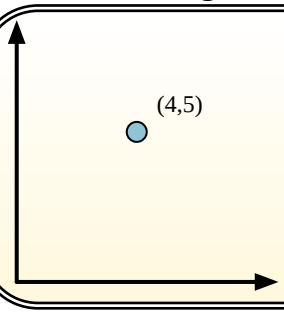
Finding Angle between Two Points

Name:

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



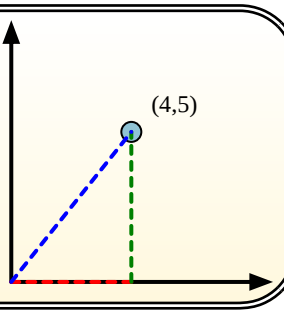
First find the slope.

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

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

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

arctan(1.25) = **51.34°**



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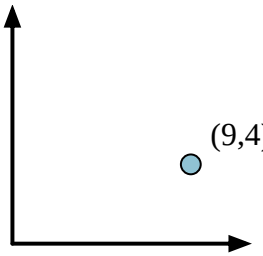

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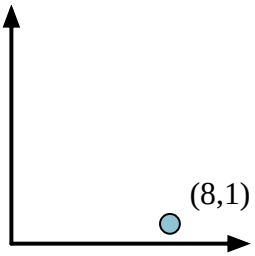

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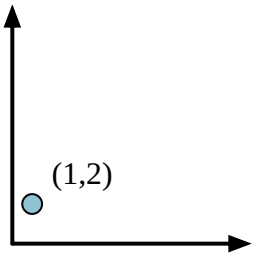

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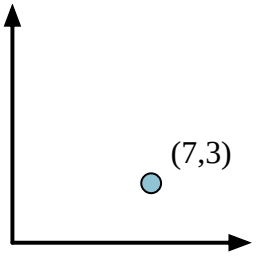

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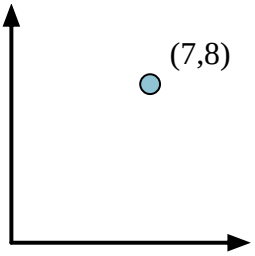

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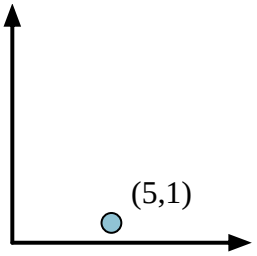

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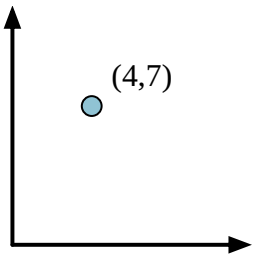

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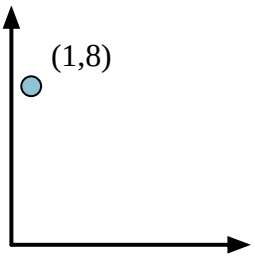

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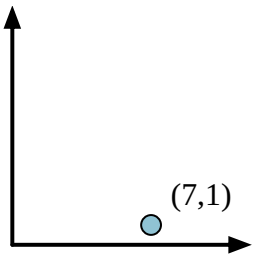

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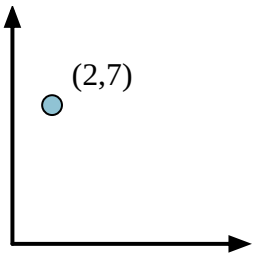

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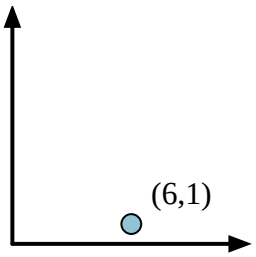

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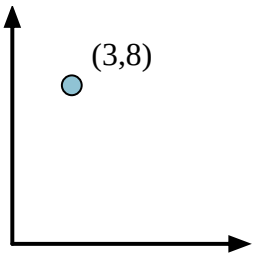


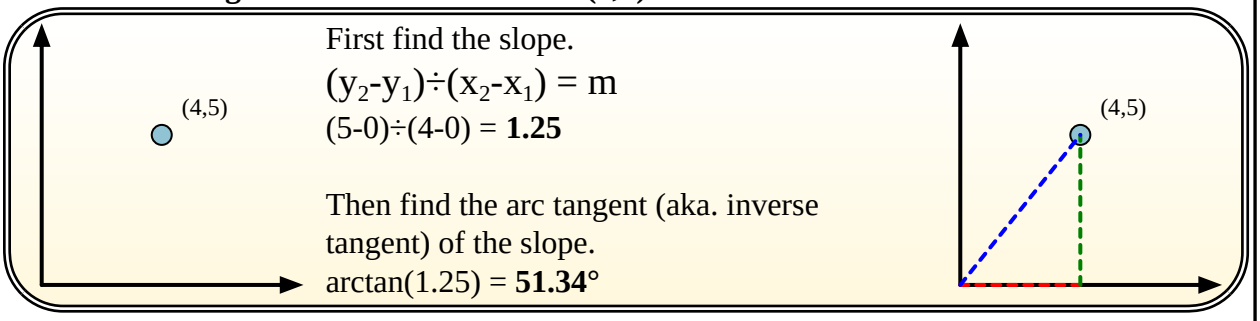
Answers

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

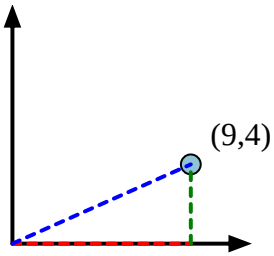
1-10	92	83	75	67	58	50	42	33	25	17
11-12	8	0								

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

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



1)



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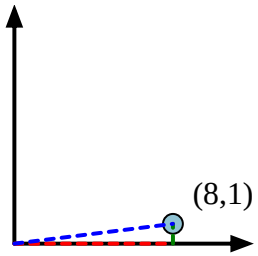

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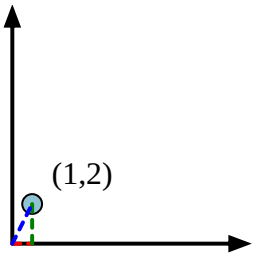
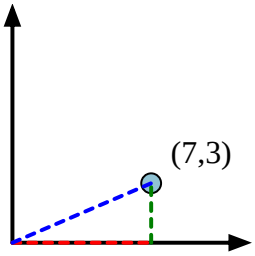


4)



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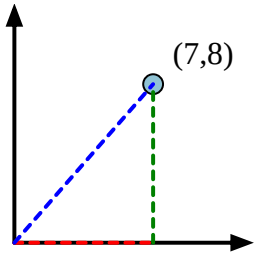

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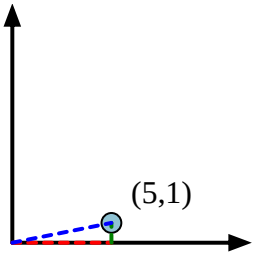

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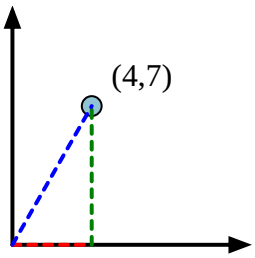

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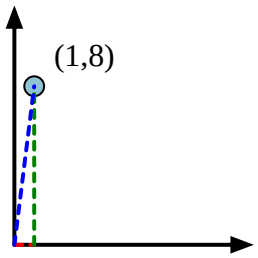

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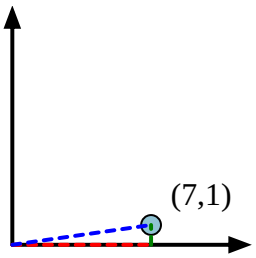

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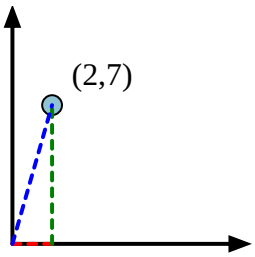

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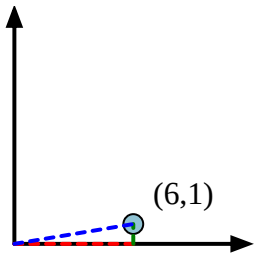

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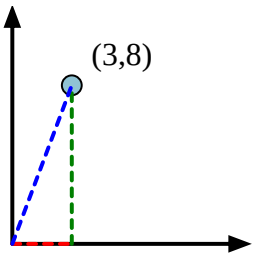

Answers

1. **23.96**
2. **7.13**
3. **63.43**
4. **23.20**
5. **48.81**
6. **11.31**
7. **60.26**
8. **82.87**
9. **8.13**
10. **74.05**
11. **9.46**
12. **69.44**

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