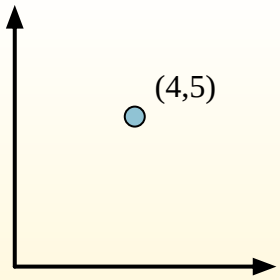
Finding Angle between Two Points

Name:

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



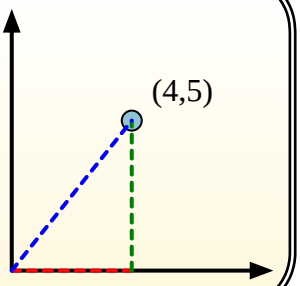
First find the slope.

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

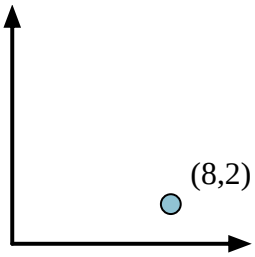
$(5-0)\div(4-0) =$ **1.25**

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

arctan(1.25) = **51.34°**



1)



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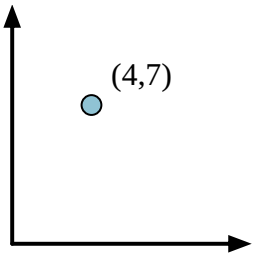

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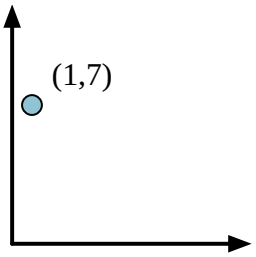

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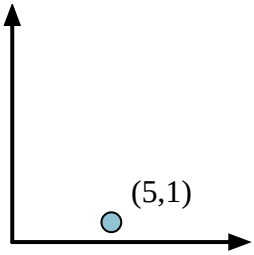

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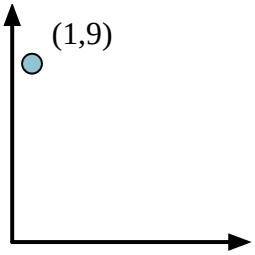

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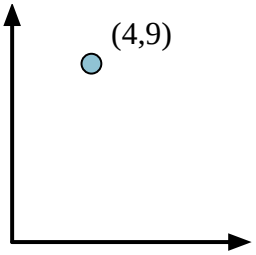

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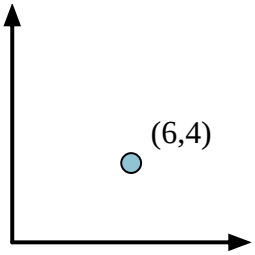

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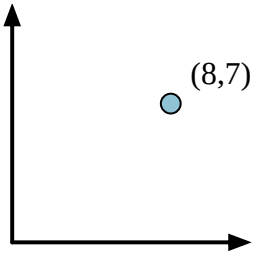

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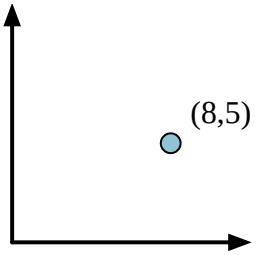

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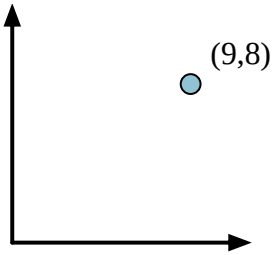

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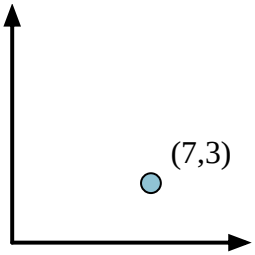

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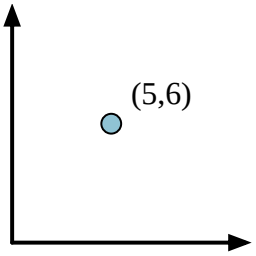

Answers

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).

First find the slope.

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

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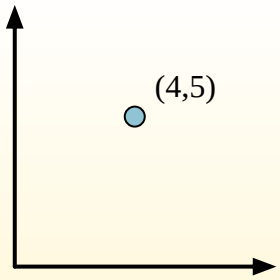
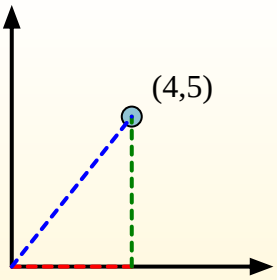
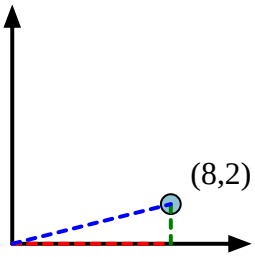




1)



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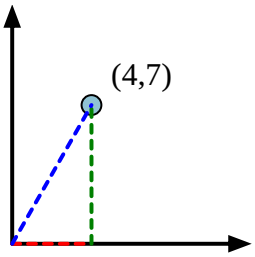

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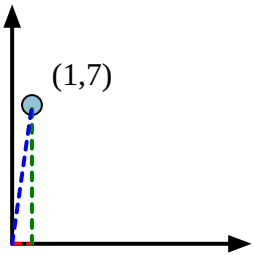

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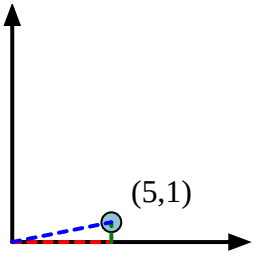

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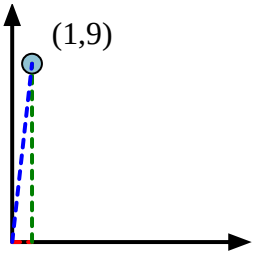

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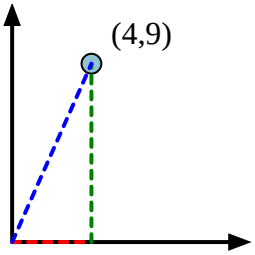

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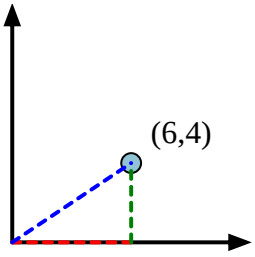

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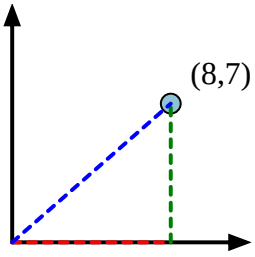

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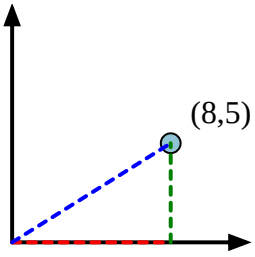

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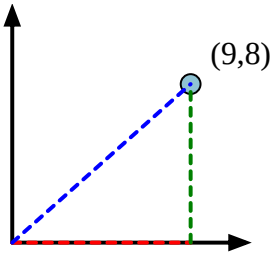

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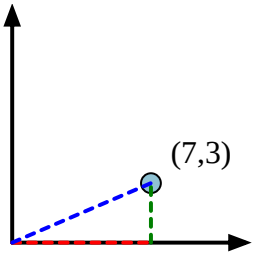

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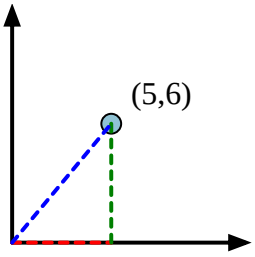

Answers

1. **14.04°**
2. **60.26°**
3. **81.87°**
4. **11.31°**
5. **83.66°**
6. **66.04°**
7. **33.69°**
8. **41.19°**
9. **32.01°**
10. **41.63°**
11. **23.20°**
12. **50.19°**

1-10	92	83	75	67	58	50	42	33	25	17
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