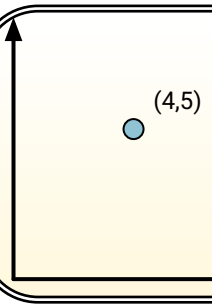
Finding Angle between Two Points

Name:

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



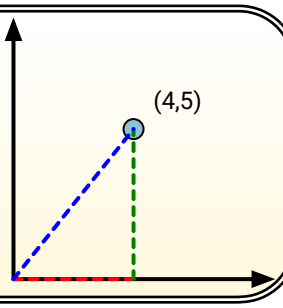
First find the slope.

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

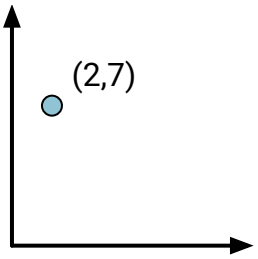
$(5-0)\div(4-0) =$ **1.25**

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

$\arctan(1.25) =$ **51.34°**



1)



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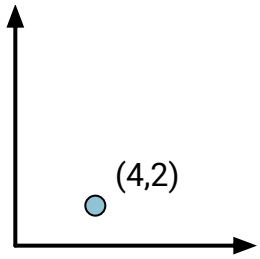

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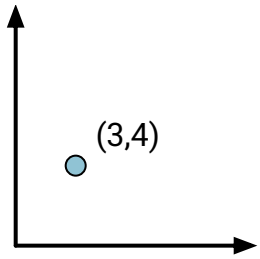

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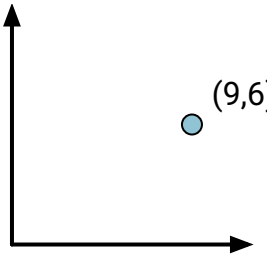

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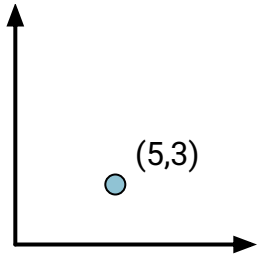

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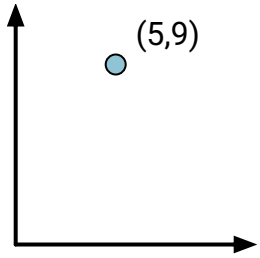

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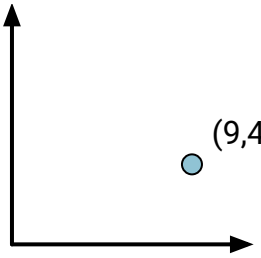

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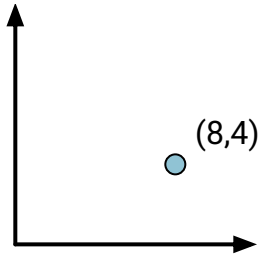

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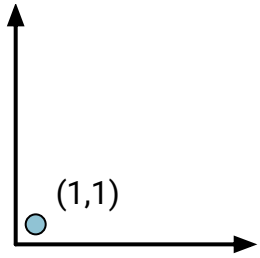

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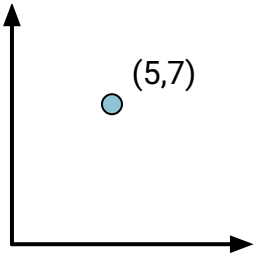

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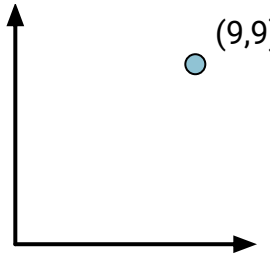

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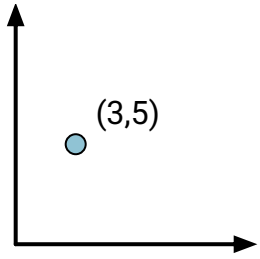


Answers

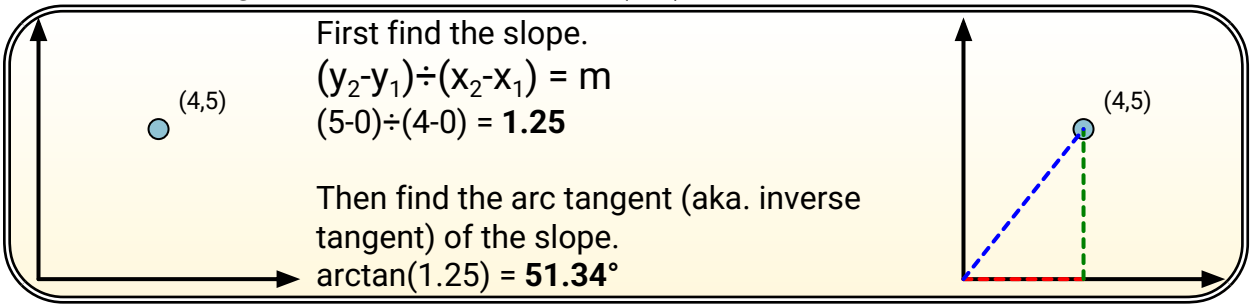
1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

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

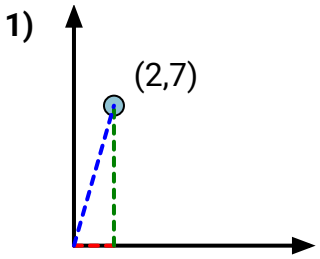
Finding Angle between Two Points

Name: **Answer Key**

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



1)



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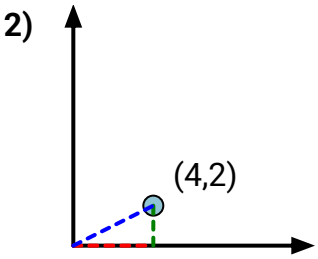

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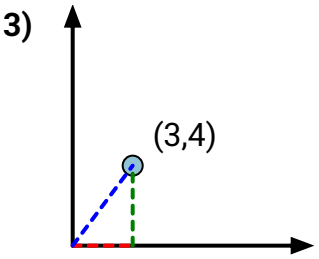

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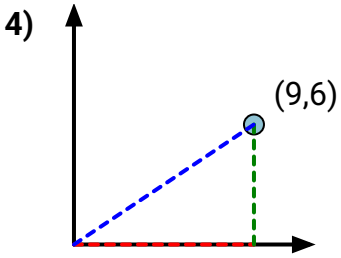

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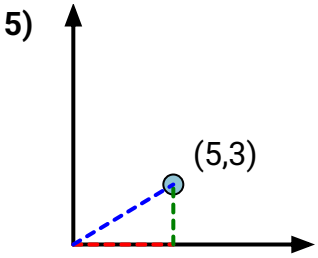

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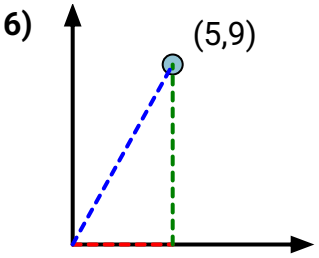

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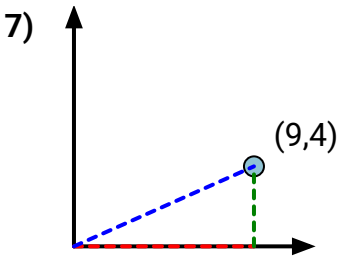

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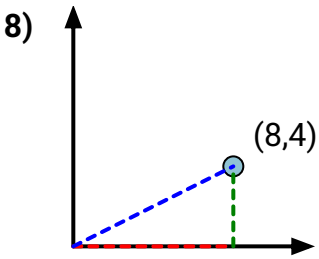

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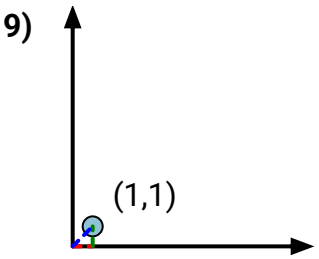

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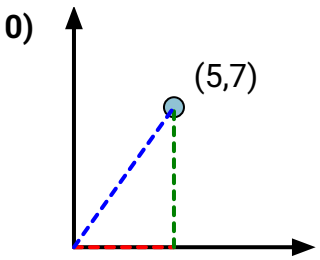

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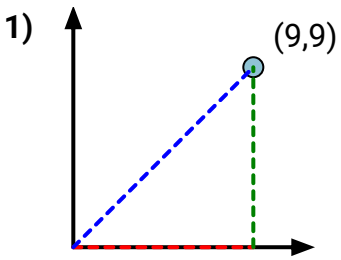

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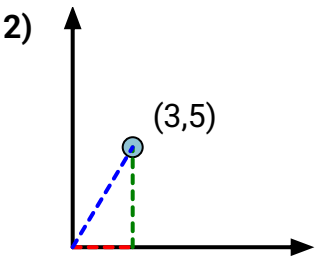

Answers

1. **74.05**
2. **26.57**
3. **53.13**
4. **33.69**
5. **30.96**
6. **60.95**
7. **23.96**
8. **26.57**
9. **45.00**
10. **54.46**
11. **45.00**
12. **59.04**

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