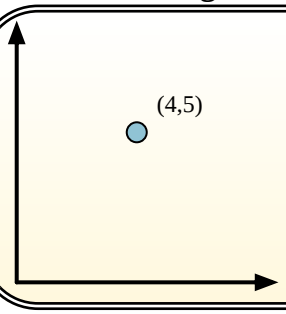
Calculate the angle of the circle relative to (0,0).



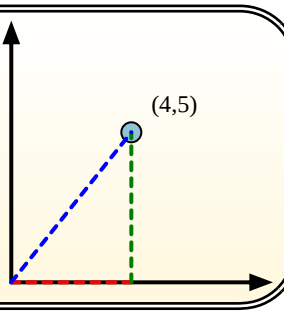
First find the slope.

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

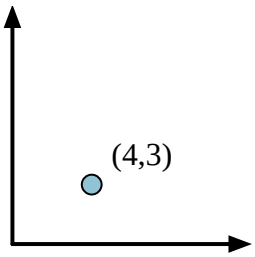
$(5-0)\div(4-0) =$ **1.25**

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

arctan(1.25) = **51.34°**



1)



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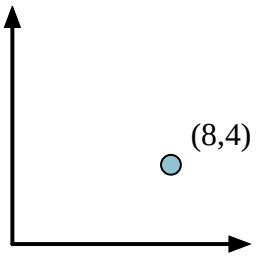

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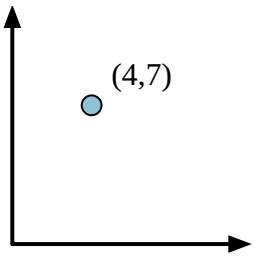

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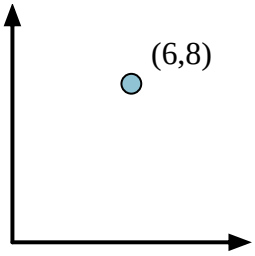

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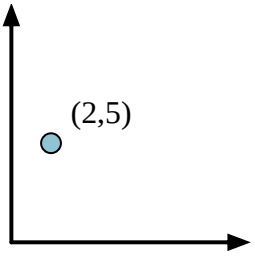

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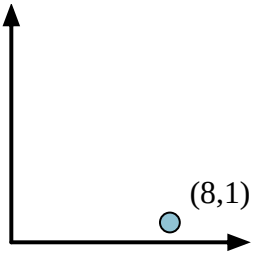

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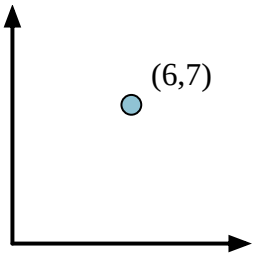

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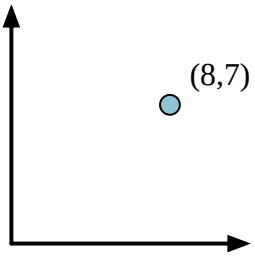

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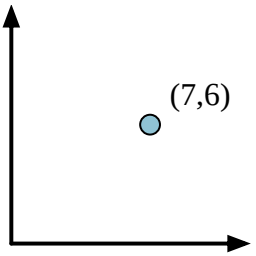

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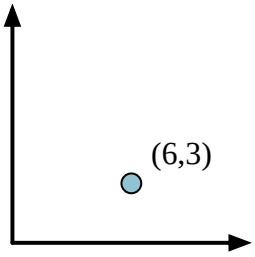
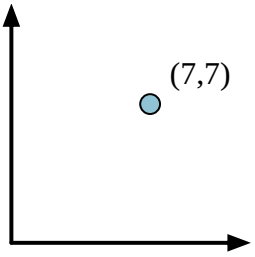
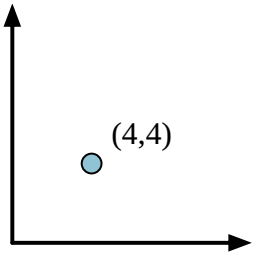


11)



12)



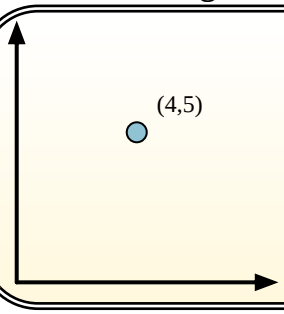
Answers

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								

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

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



First find the slope.

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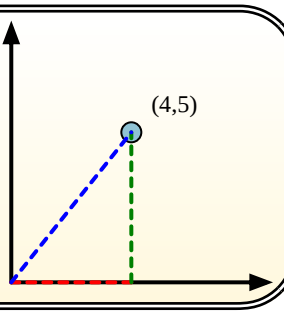
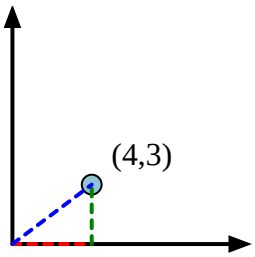
Then find the arc tangent (aka. inverse tangent) of the slope.

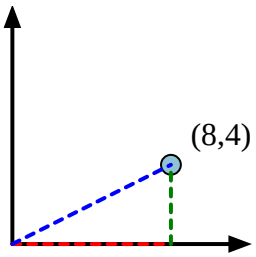
$\arctan(1.25) =$ **51.34°**



1)



2)



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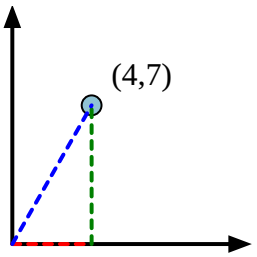

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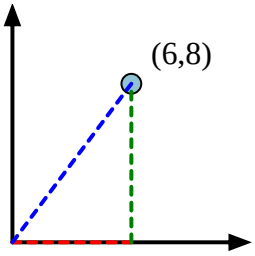

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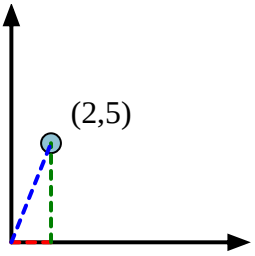

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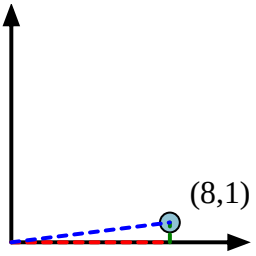

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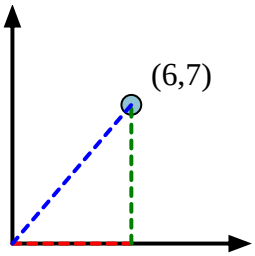
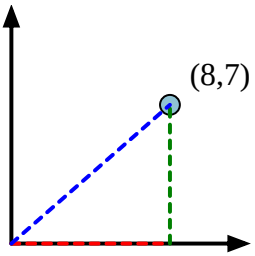
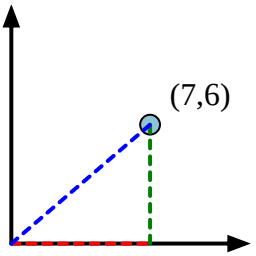


8)



9)



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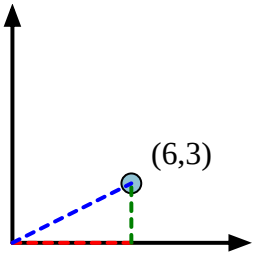

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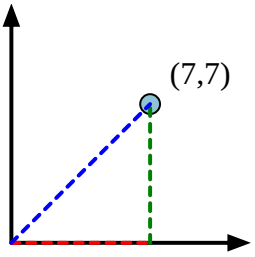

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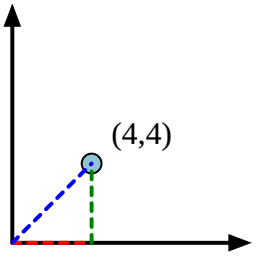

Answers

1. **36.87**
2. **26.57**
3. **60.26**
4. **53.13**
5. **68.20**
6. **7.13**
7. **49.40**
8. **41.19**
9. **40.60**
10. **26.57**
11. **45.00**
12. **45.00**

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