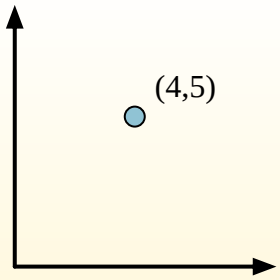
Finding Angle between Two Points

Name:

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



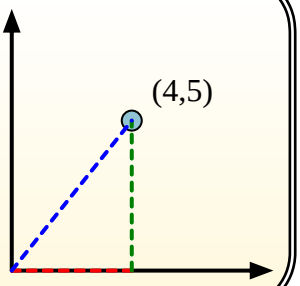
First find the slope.

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

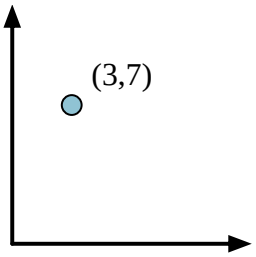
(5-0)÷(4-0) = **1.25**

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

arctan(1.25) = **51.34°**



1)



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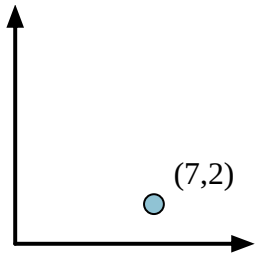

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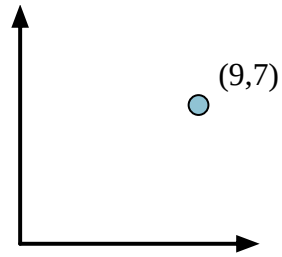

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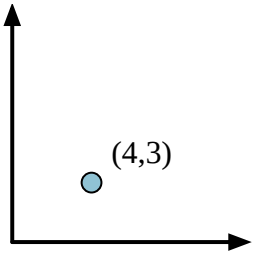

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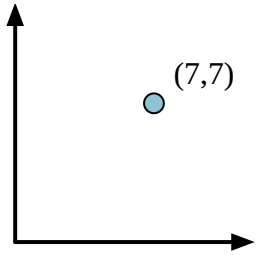

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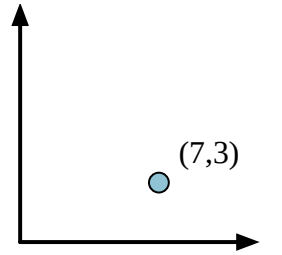

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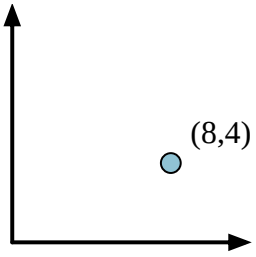

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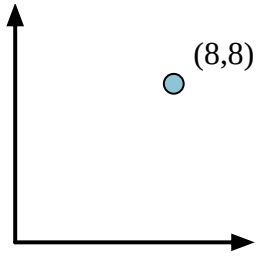

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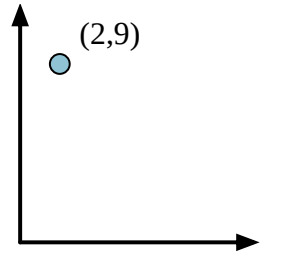

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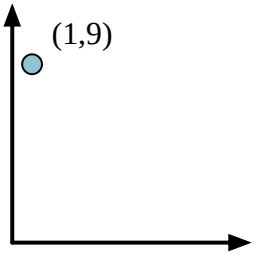

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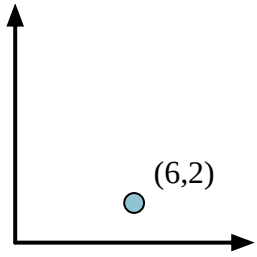

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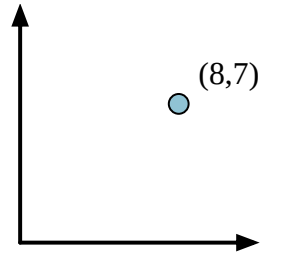

Answers

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.

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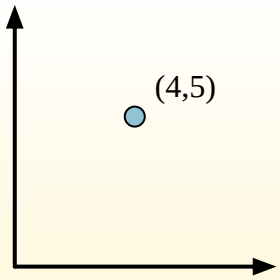
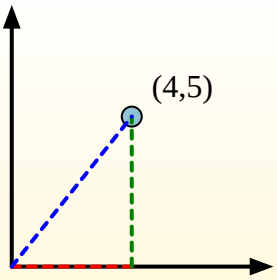
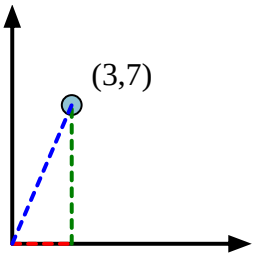




1)



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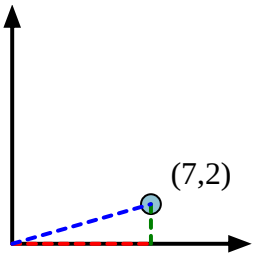

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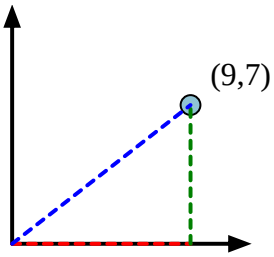
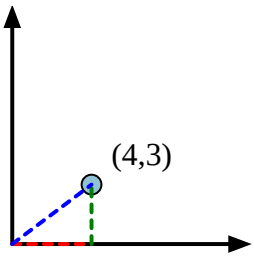


4)



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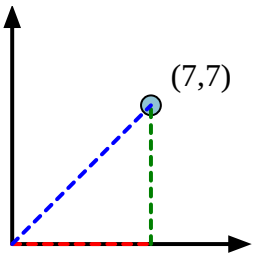

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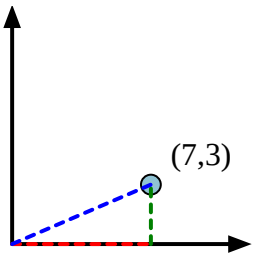

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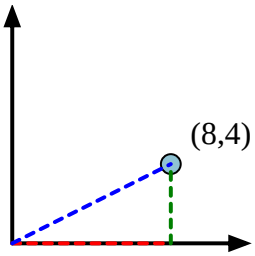
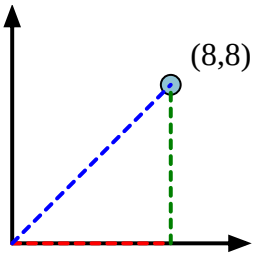


8)



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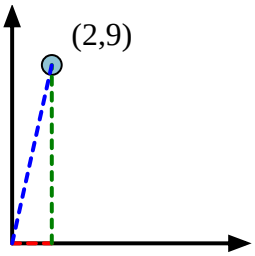

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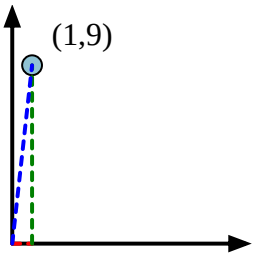

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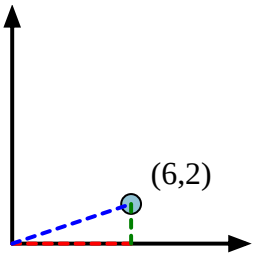
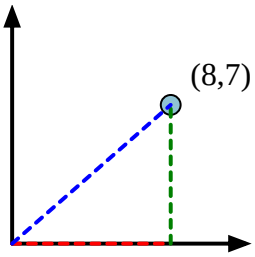


12)



Answers

1. **66.80°**
2. **15.95°**
3. **37.87°**
4. **36.87°**
5. **45.00°**
6. **23.20°**
7. **26.57°**
8. **45.00°**
9. **77.47°**
10. **83.66°**
11. **18.43°**
12. **41.19°**

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