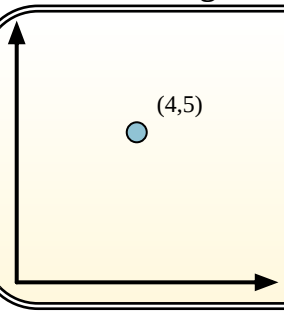
Finding Angle between Two Points

Name:

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



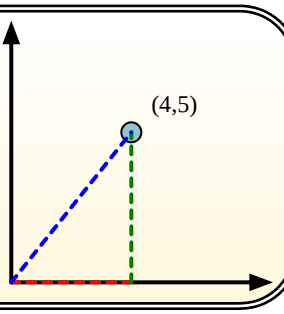
First find the slope.

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

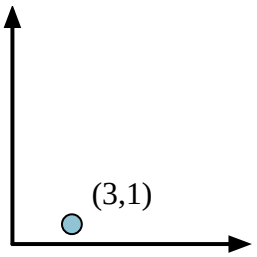
$(5-0)\div(4-0) =$ **1.25**

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

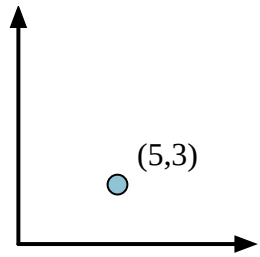
arctan(1.25) = **51.34°**



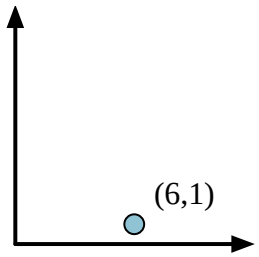
1)



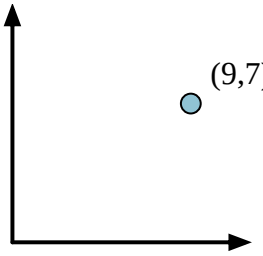
2)



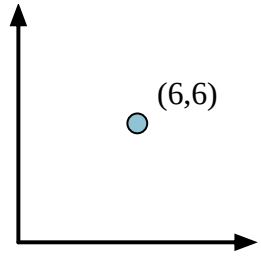
3)



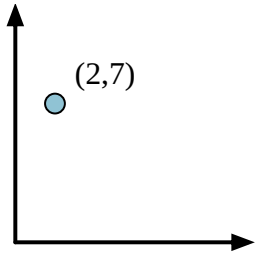
4)



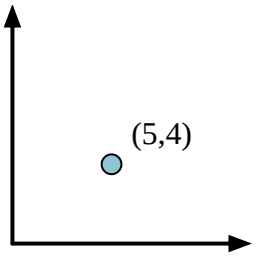
5)



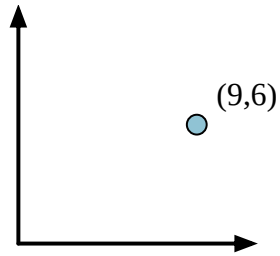
6)



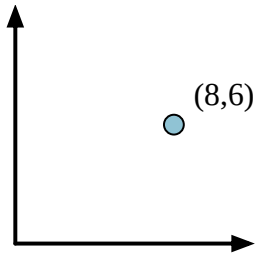
7)



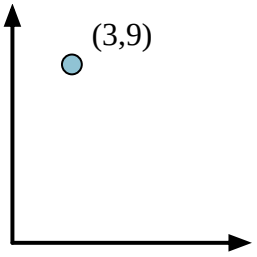
8)



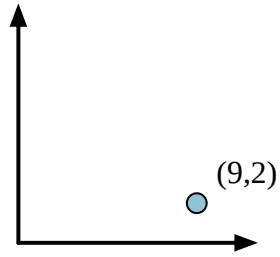
9)



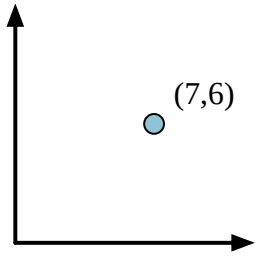
10)



11)



12)



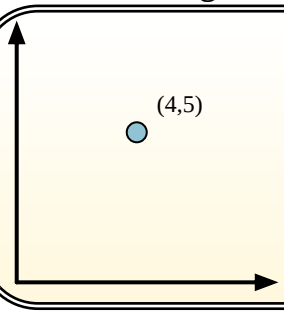
Answers

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).



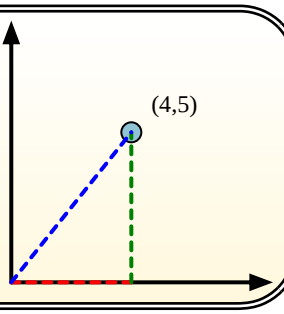
First find the slope.

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

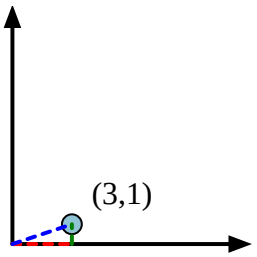
$(5-0)\div(4-0) =$ **1.25**

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

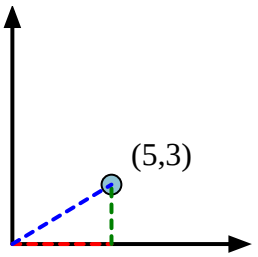
$\arctan(1.25) =$ **51.34°**



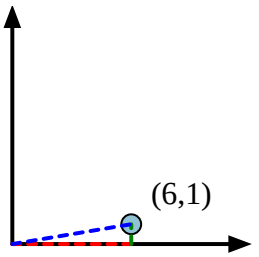
1)



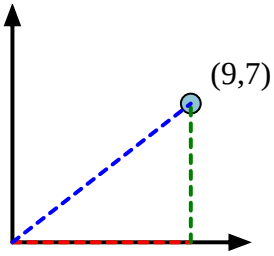
2)



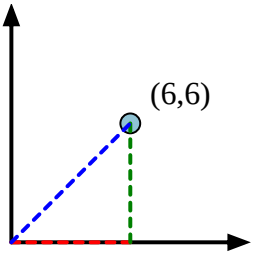
3)



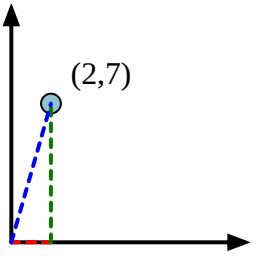
4)



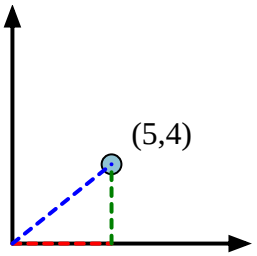
5)



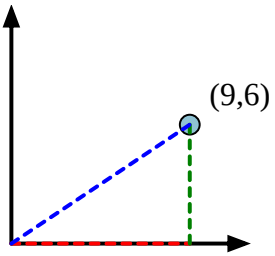
6)



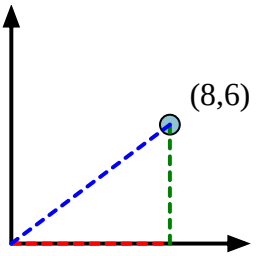
7)



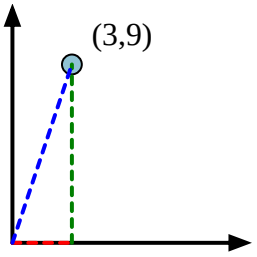
8)



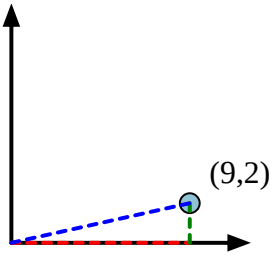
9)



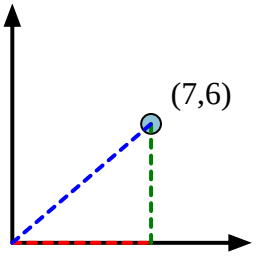
10)



11)



12)



Answers

1. **18.43**
2. **30.96**
3. **9.46**
4. **37.87**
5. **45.00**
6. **74.05**
7. **38.66**
8. **33.69**
9. **36.87**
10. **71.57**
11. **12.53**
12. **40.60**

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