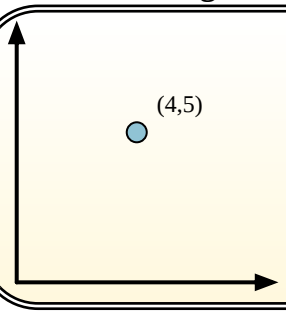
**Calculate the angle of the circle relative to (0,0).**



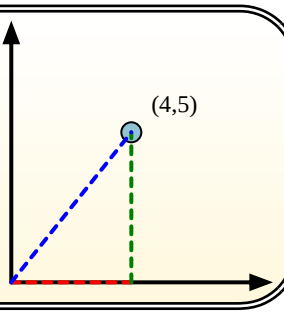

First find the slope.

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

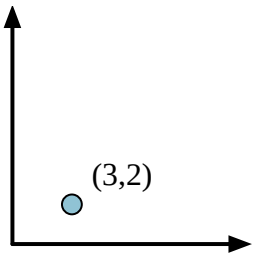
$(5-0)\div(4-0) =$ **1.25**

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

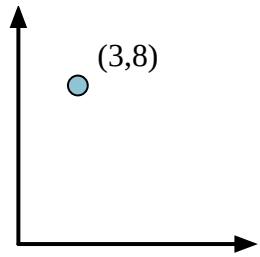
$\arctan(1.25) =$ **51.34°**



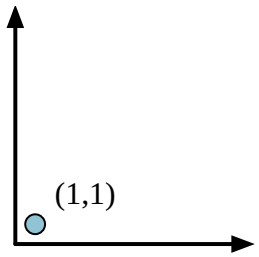

**1)**



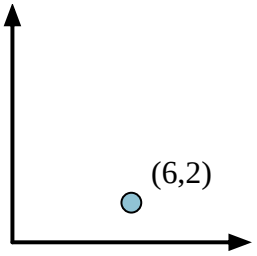

**2)**



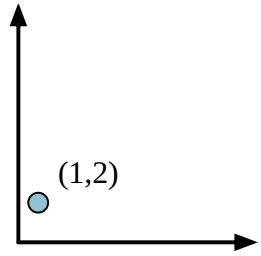

**3)**



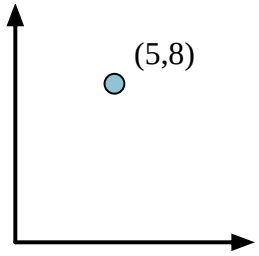

**4)**



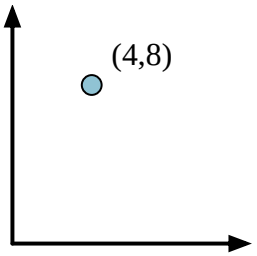

**5)**



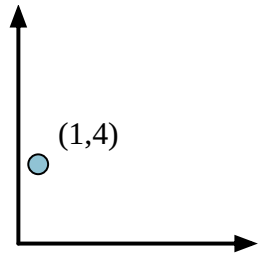

**6)**



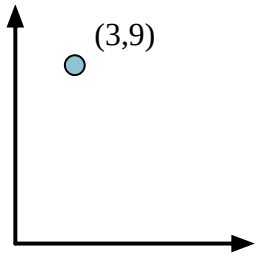

**7)**



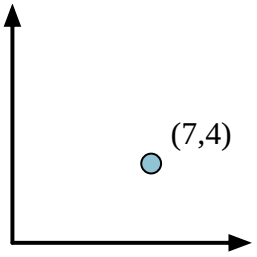

**8)**



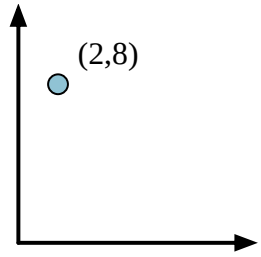

**9)**



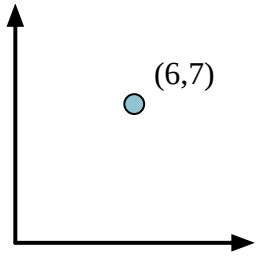

**10)**




**11)**




**12)**



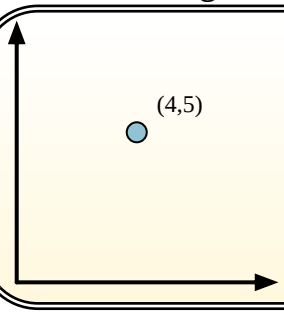

## Answers

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 | | | | | | | | |

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

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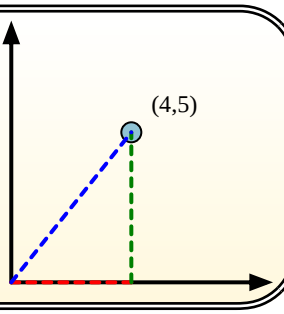
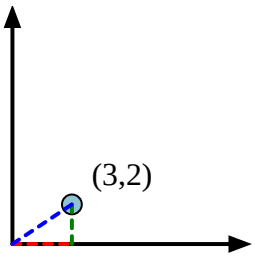
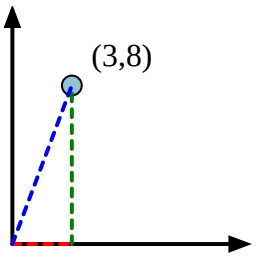


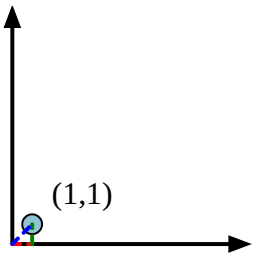

**1)**



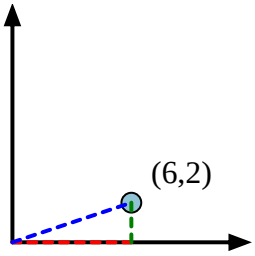

**2)**



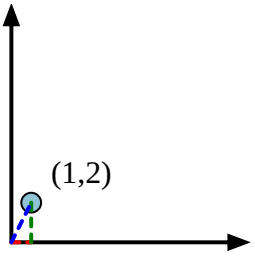

**3)**



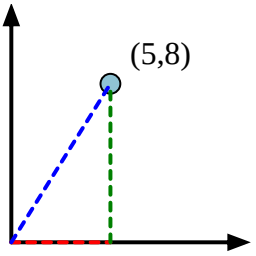

**4)**



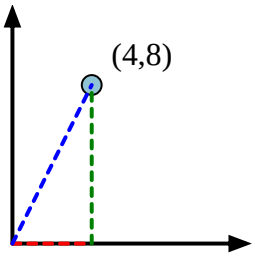

**5)**



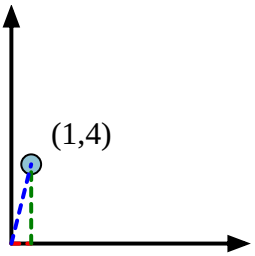

**6)**



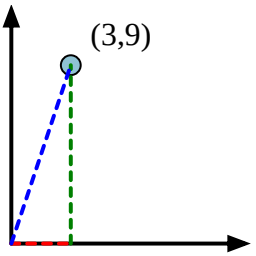

**7)**



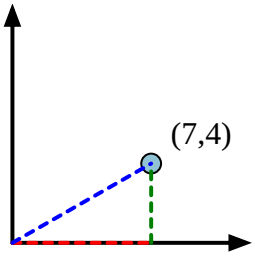

**8)**



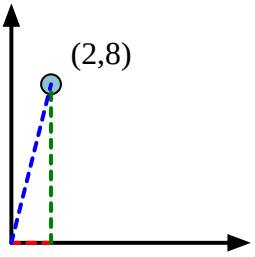

**9)**



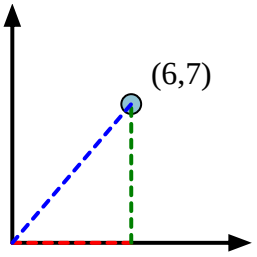

**10)**




**11)**




**12)**




## Answers

1. **33.69**
2. **69.44**
3. **45.00**
4. **18.43**
5. **63.43**
6. **57.99**
7. **63.43**
8. **75.96**
9. **71.57**
10. **29.74**
11. **75.96**
12. **49.40**



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