



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

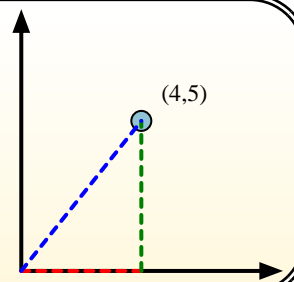
First find the slope.

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

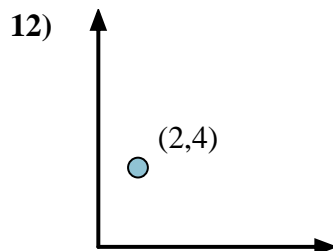
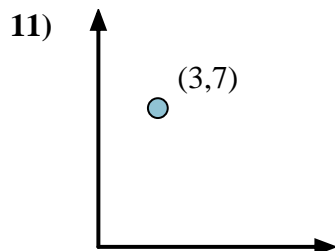
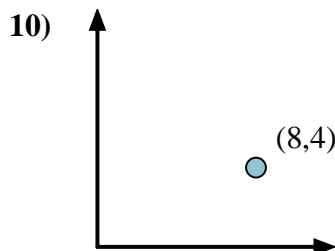
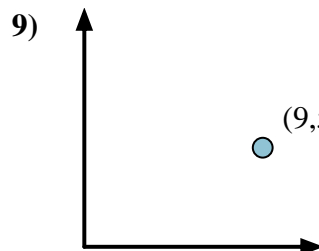
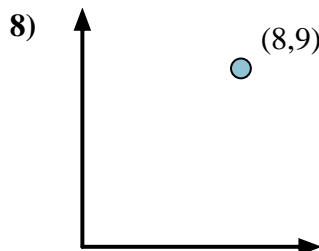
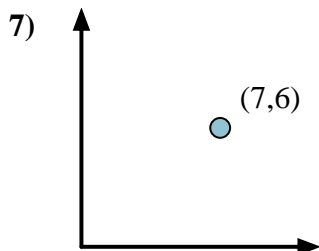
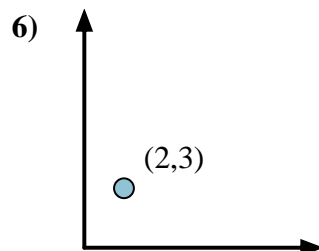
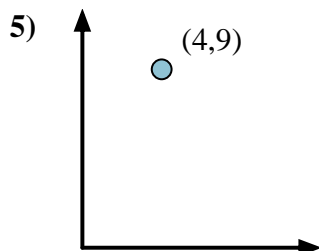
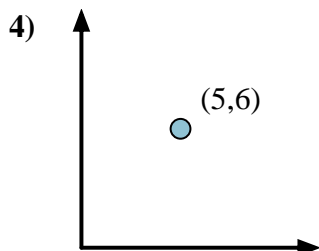
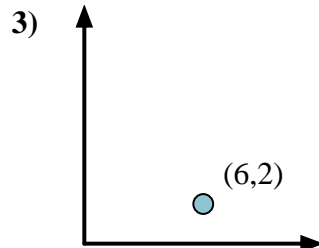
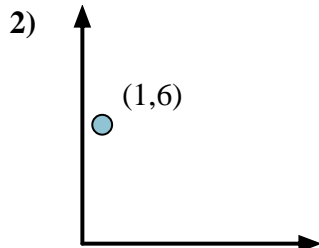
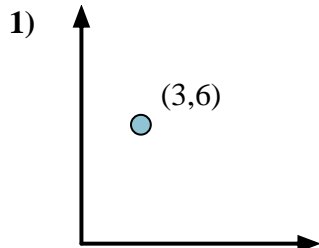
$$(5 - 0) \div (4 - 0) = 1.25$$

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

$$\arctan(1.25) = 51.34^\circ$$



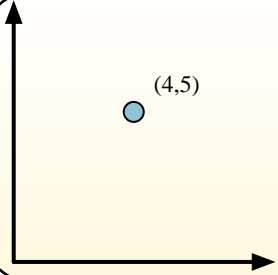
## Answers



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

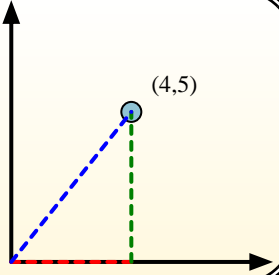


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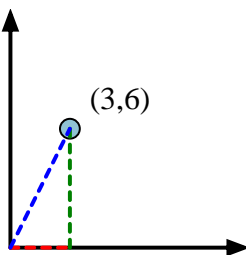
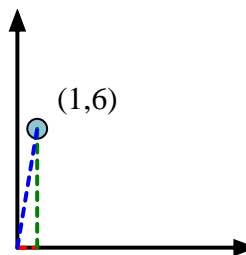
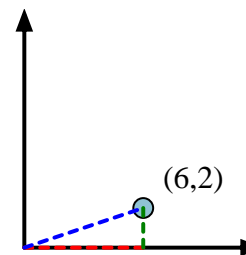
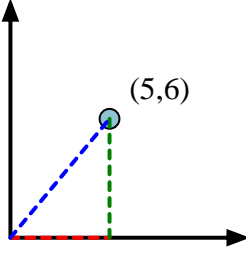
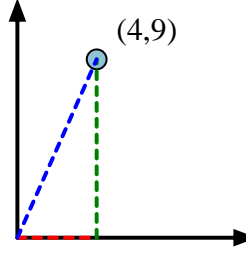
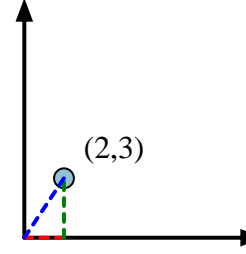
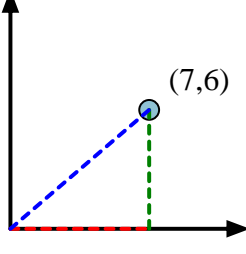
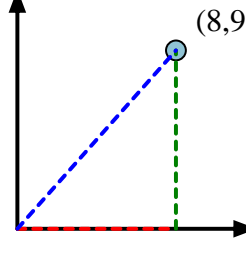
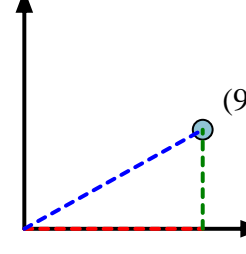
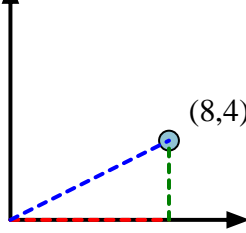
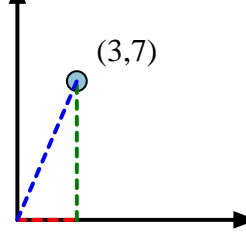
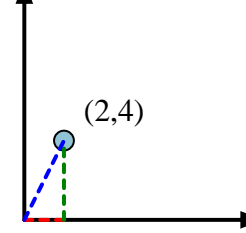


First find the slope.  
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 $(5 - 0) \div (4 - 0) = 1.25$

Then find the arc tangent (aka. inverse tangent) of the slope.  
 $\arctan(1.25) = 51.34^\circ$



**Answers**

- |   |   |  |
|---|---|--|
| 1)     | 2)     | 3)     |
| 4)    | 5)    | 6)    |
| 7)   | 8)   | 9)   |
| 10)  | 11)  | 12)  |

- |     |              |
|-----|--------------|
| 1.  | <b>63.43</b> |
| 2.  | <b>80.54</b> |
| 3.  | <b>18.43</b> |
| 4.  | <b>50.19</b> |
| 5.  | <b>66.04</b> |
| 6.  | <b>56.31</b> |
| 7.  | <b>40.60</b> |
| 8.  | <b>48.37</b> |
| 9.  | <b>29.05</b> |
| 10. | <b>26.57</b> |
| 11. | <b>66.80</b> |
| 12. | <b>63.43</b> |