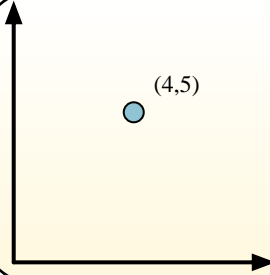


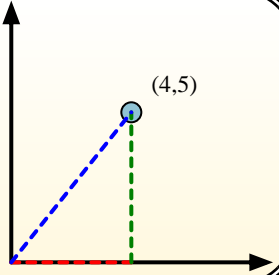


Calculate the angle of the circle relative to (0,0).

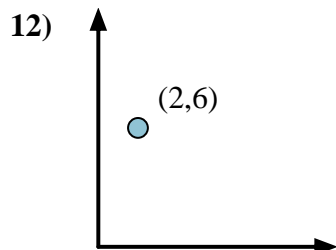
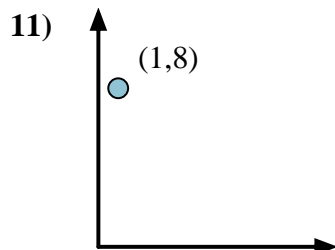
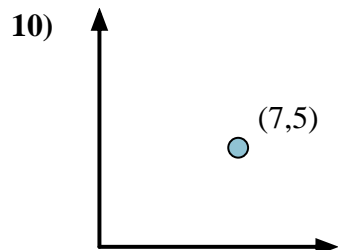
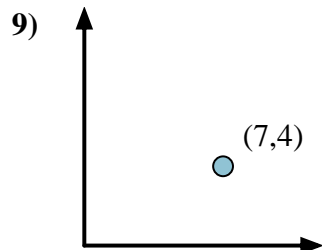
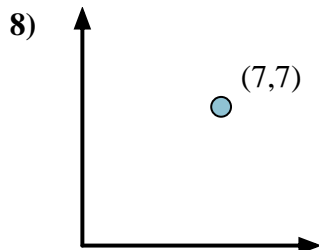
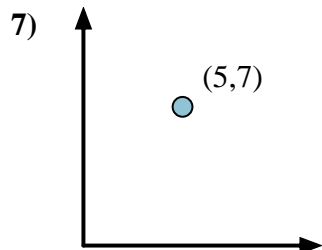
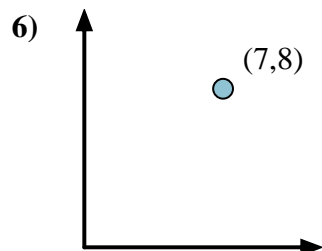
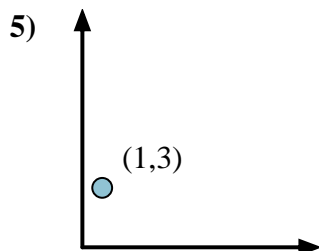
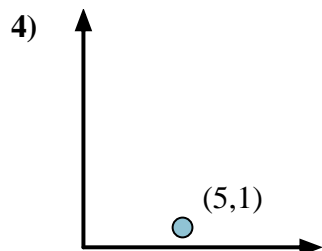
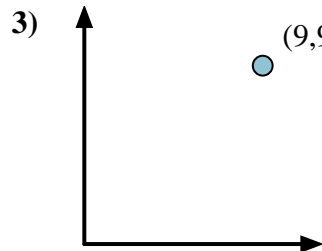
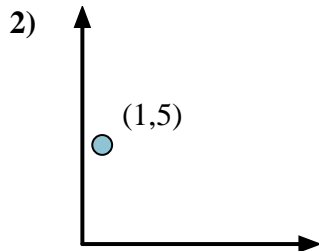
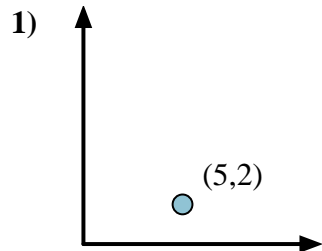


First find the slope.
 $(y_2 - y_1) \div (x_2 - x_1) = m$
 $(5 - 0) \div (4 - 0) = 1.25$

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. _____



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

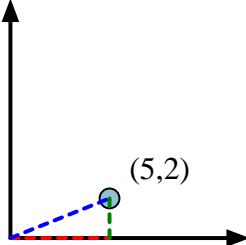
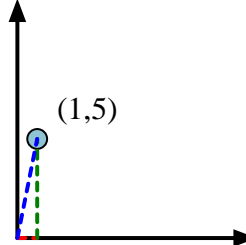
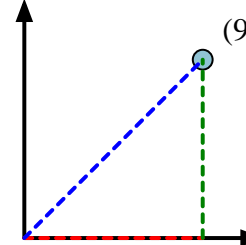
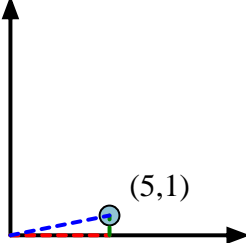
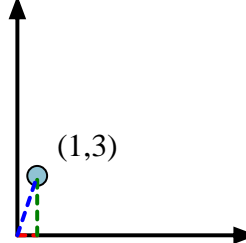
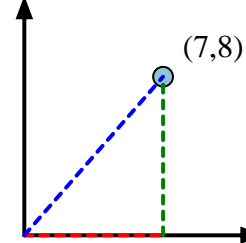
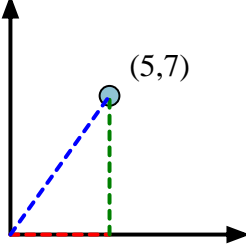
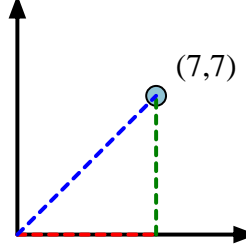
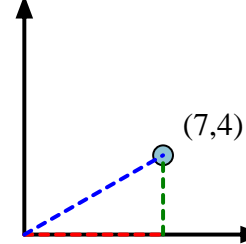
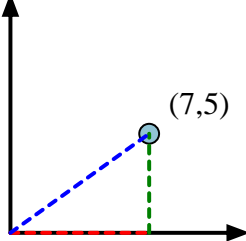
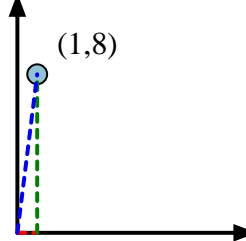
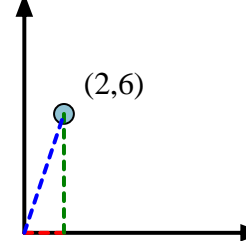


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Answers

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

- | | |
|-----|--------------|
| 1. | 21.80 |
| 2. | 78.69 |
| 3. | 45.00 |
| 4. | 11.31 |
| 5. | 71.57 |
| 6. | 48.81 |
| 7. | 54.46 |
| 8. | 45.00 |
| 9. | 29.74 |
| 10. | 35.54 |
| 11. | 82.87 |
| 12. | 71.57 |