



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

Answers

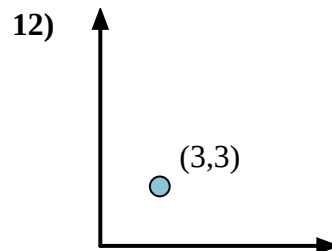
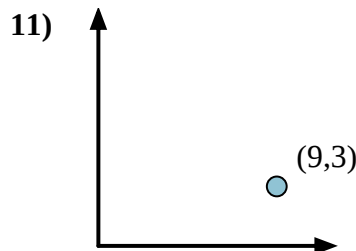
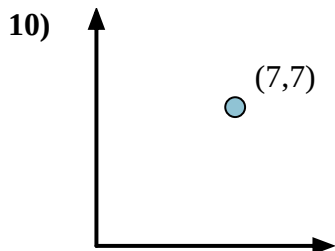
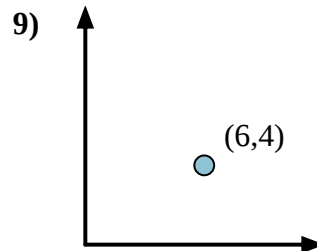
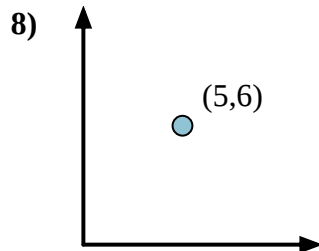
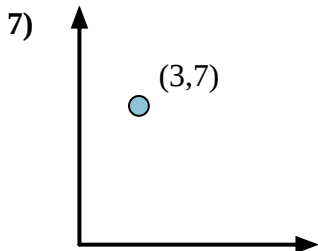
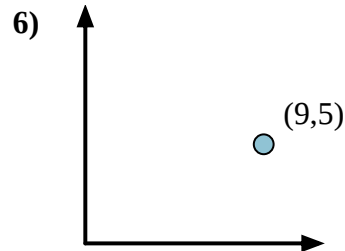
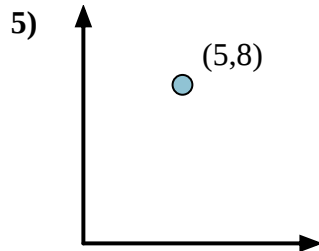
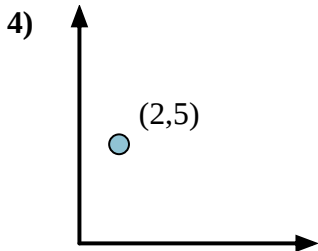
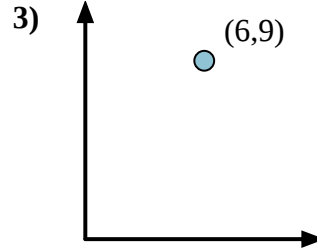
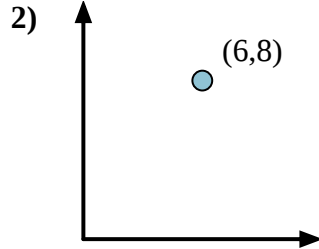
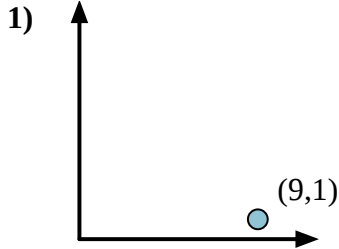
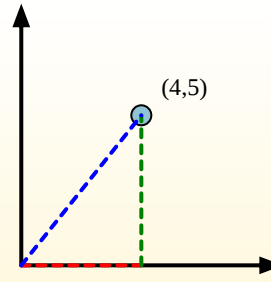
First find the slope.

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

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

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

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



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



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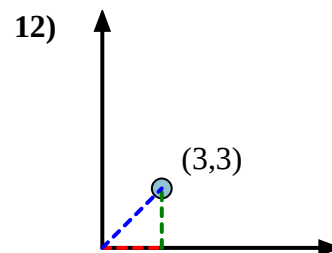
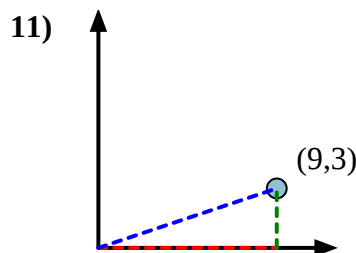
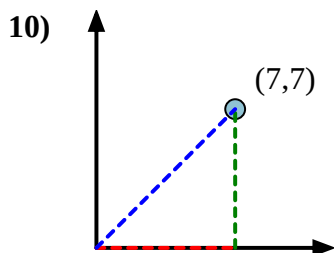
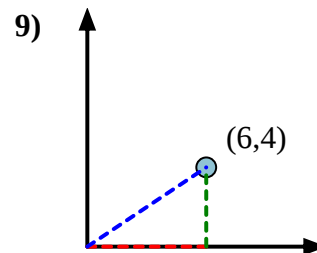
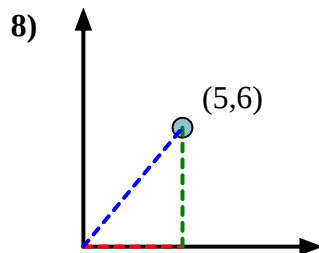
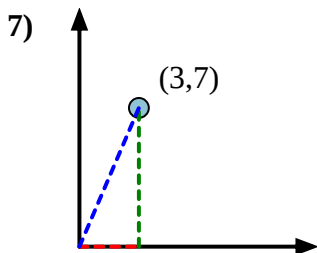
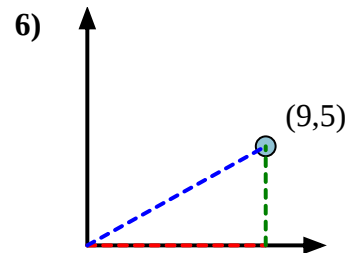
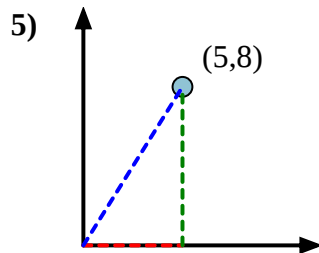
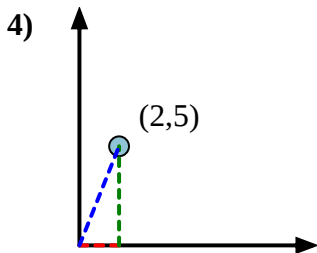
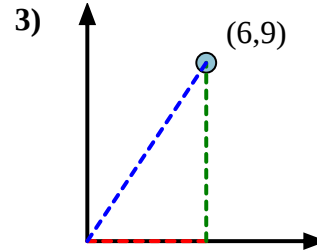
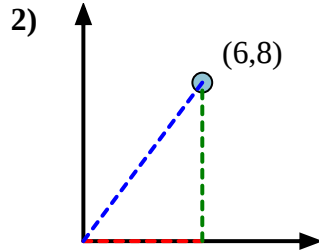
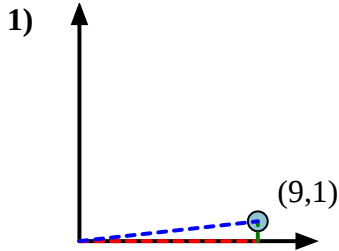
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$$\arctan(1.25) = 51.34^\circ$$

**Answers**1. **6.34**2. **53.13**3. **56.31**4. **68.20**5. **57.99**6. **29.05**7. **66.80**8. **50.19**9. **33.69**10. **45.00**11. **18.43**12. **45.00**