



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

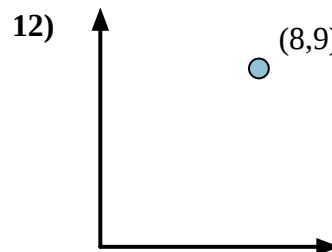
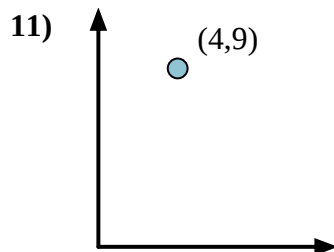
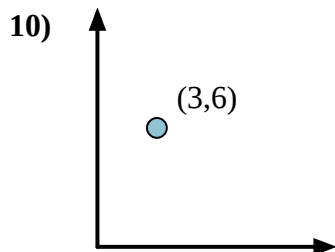
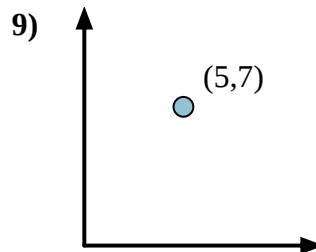
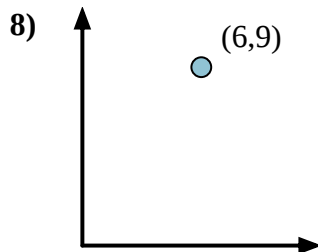
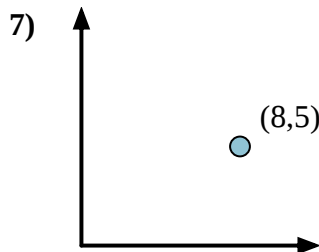
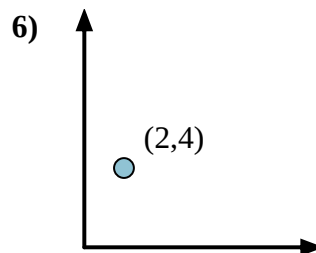
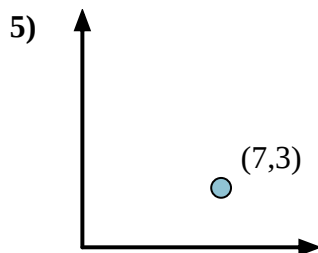
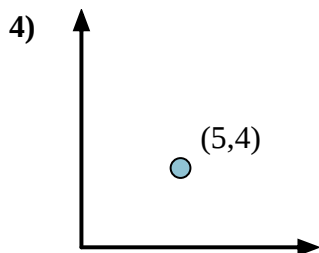
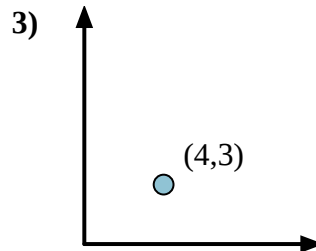
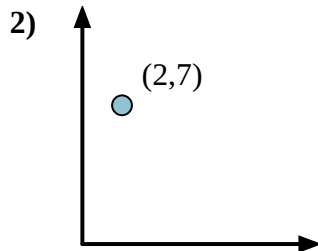
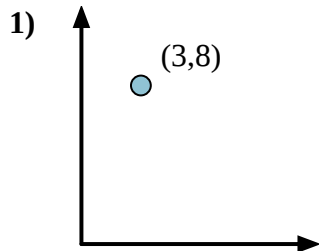
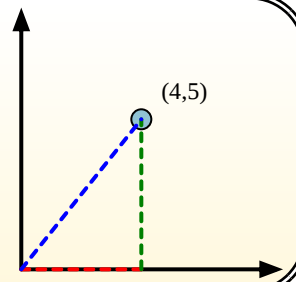
First find the slope.

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

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

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).

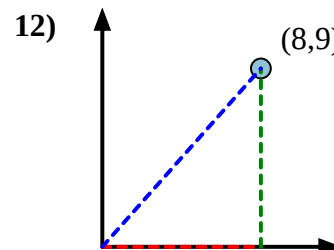
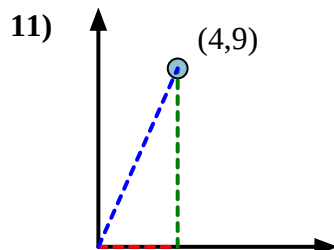
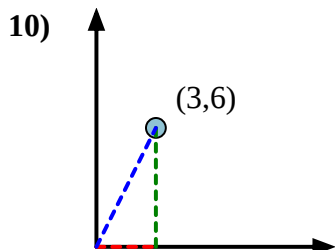
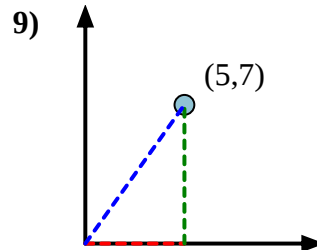
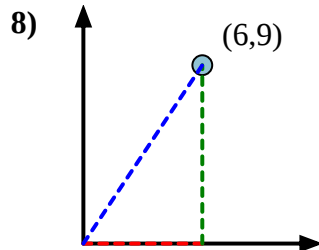
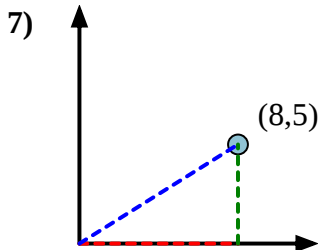
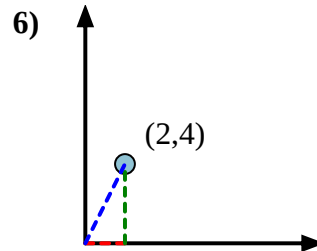
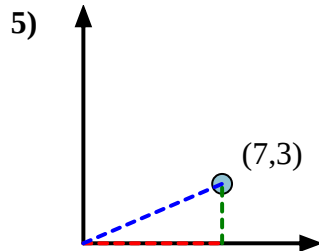
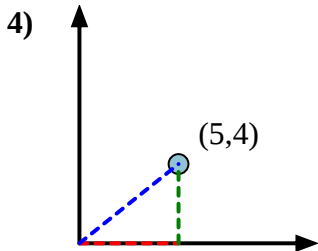
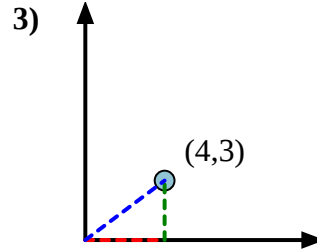
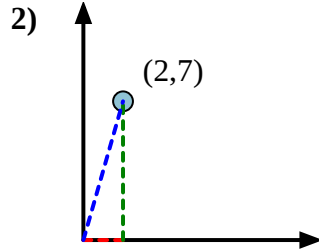
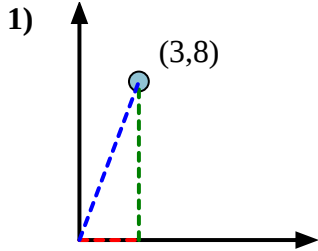
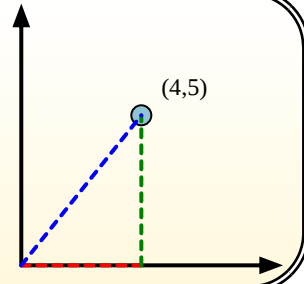
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$$\arctan(1.25) = 51.34^\circ$$

**Answers**

1. **69.44**
2. **74.05**
3. **36.87**
4. **38.66**
5. **23.20**
6. **63.43**
7. **32.01**
8. **56.31**
9. **54.46**
10. **63.43**
11. **66.04**
12. **48.37**