



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

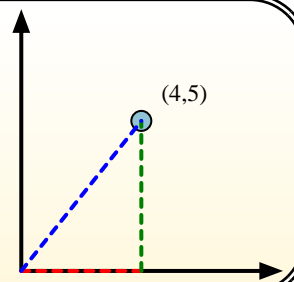
First find the slope.

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

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

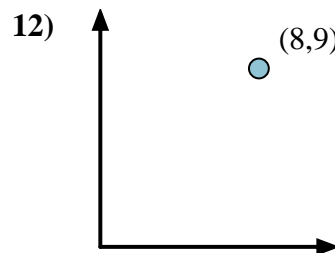
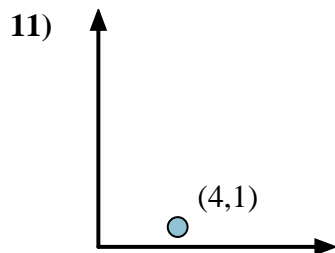
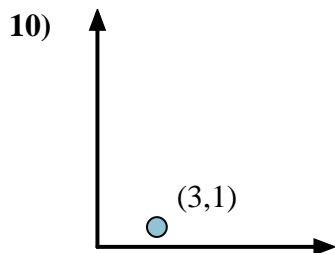
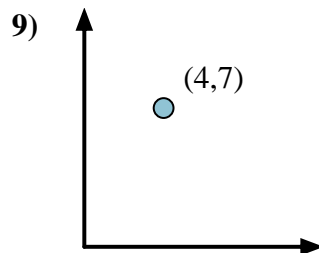
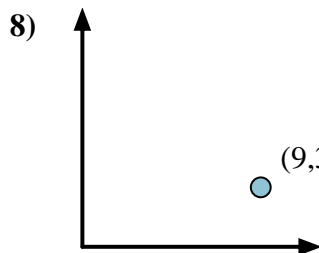
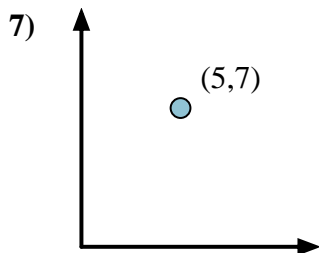
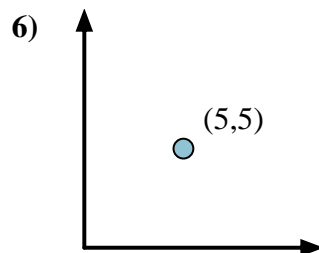
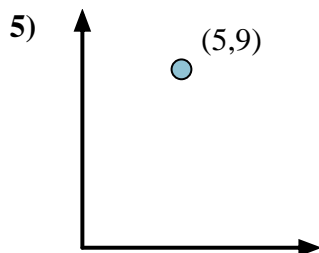
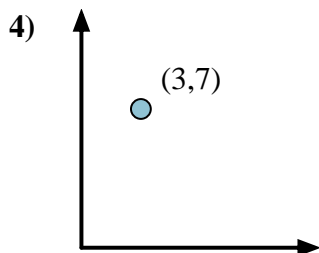
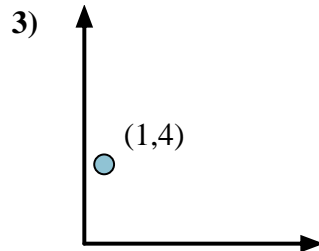
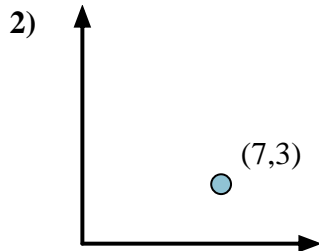
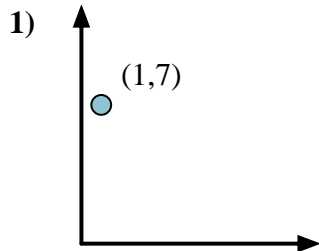
Then find the arc tangent (aka. inverse tangent) of the slope.

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



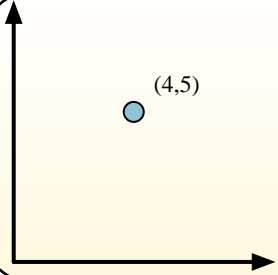
Answers

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



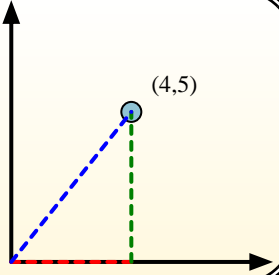


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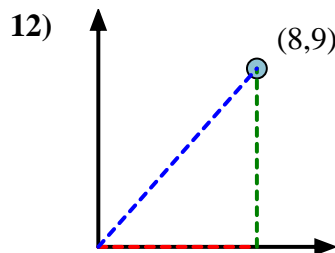
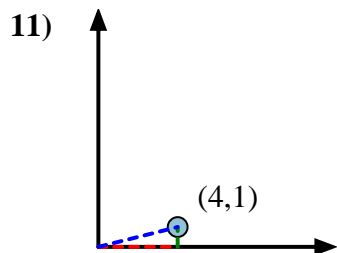
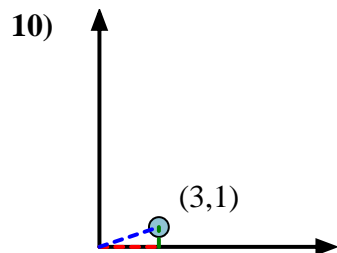
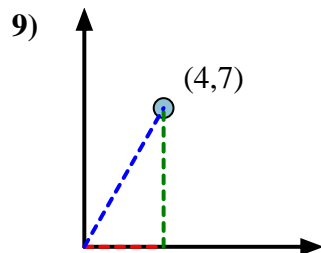
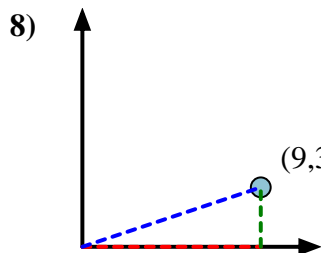
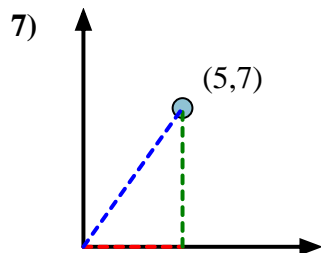
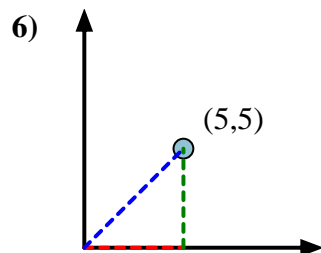
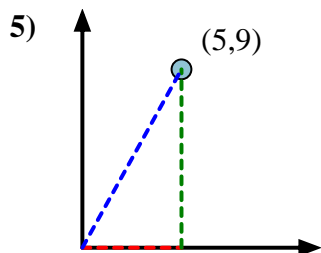
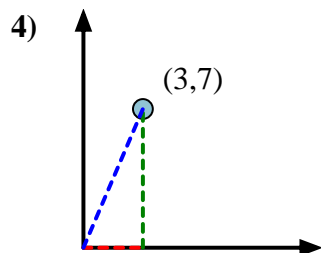
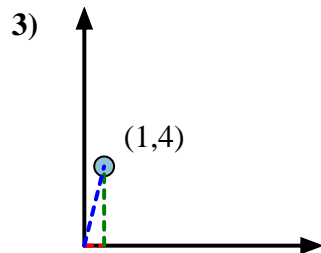
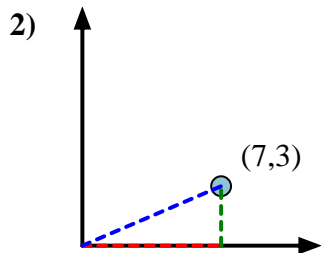
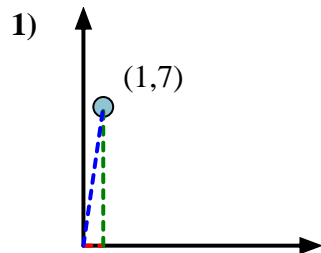


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 $(5 - 0) \div (4 - 0) = 1.25$

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



Answers



1. 81.87
2. 23.20
3. 75.96
4. 66.80
5. 60.95
6. 45.00
7. 54.46
8. 18.43
9. 60.26
10. 18.43
11. 14.04
12. 48.37