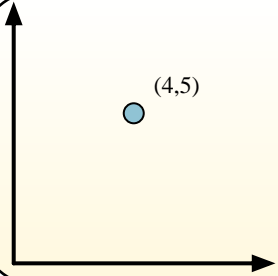


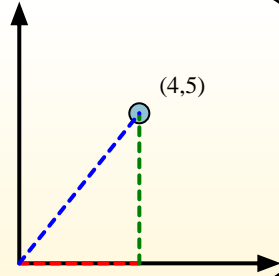


Calculate the angle of the circle relative to (0,0).

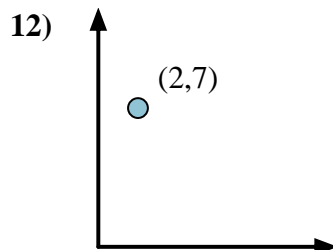
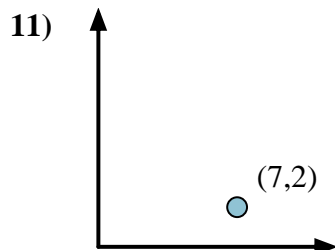
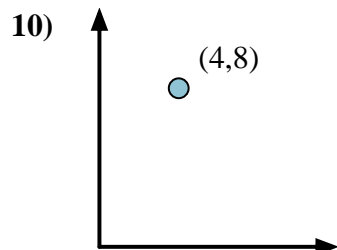
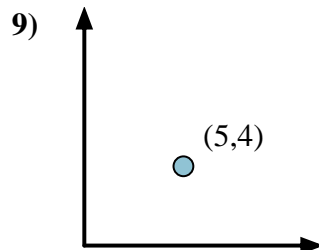
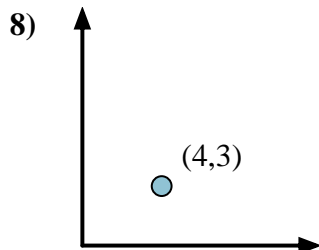
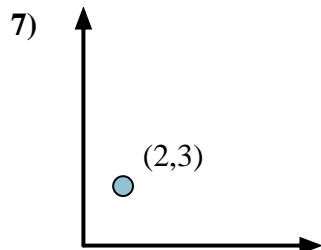
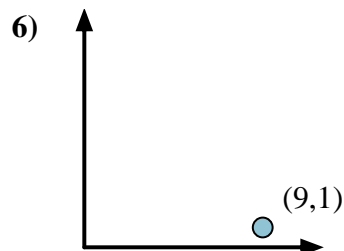
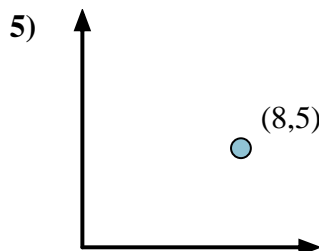
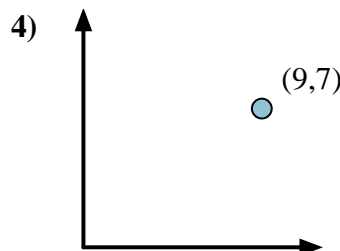
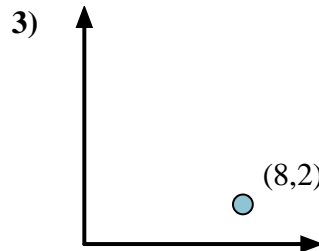
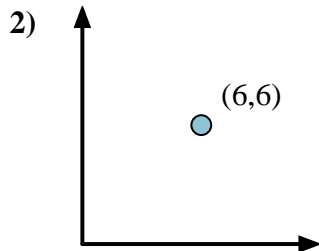
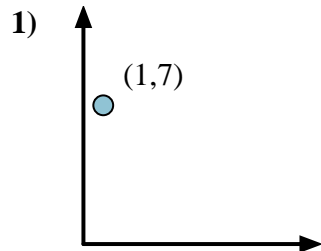


First find the slope.
 $(y_2 - y_1) \div (x_2 - x_1) = m$
 $(5 - 0) \div (4 - 0) = 1.25$

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



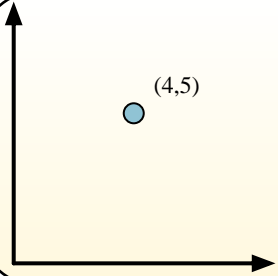
Answers



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

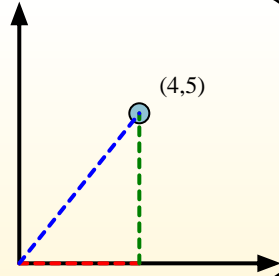


Calculate the angle of the circle relative to (0,0).

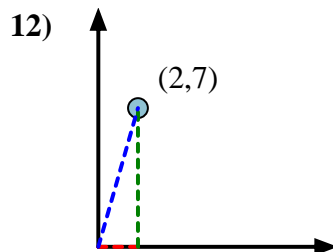
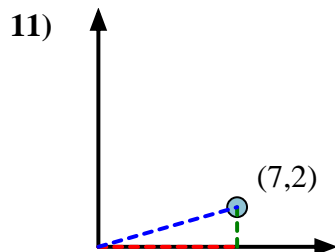
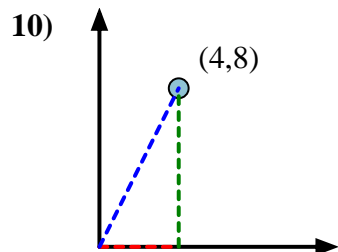
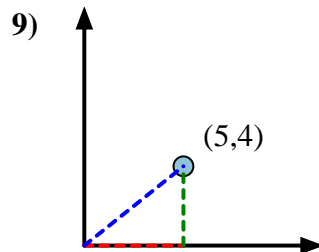
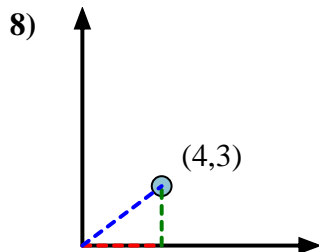
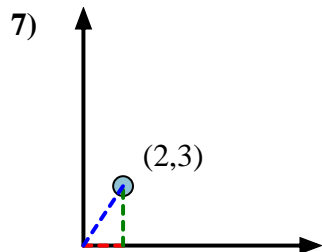
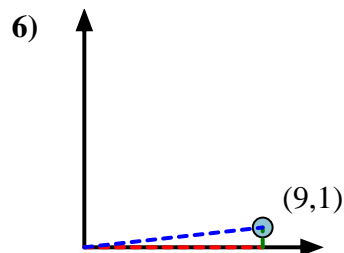
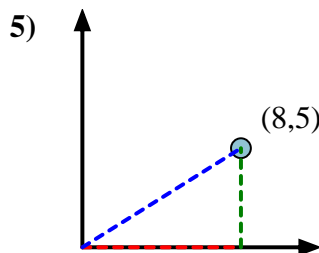
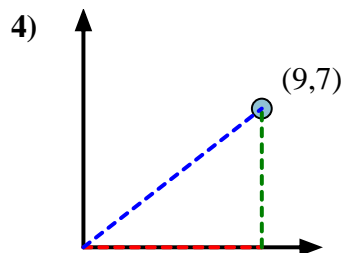
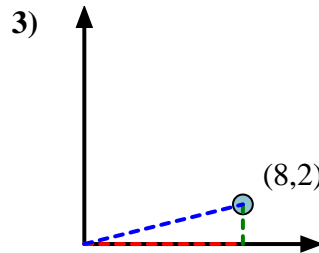
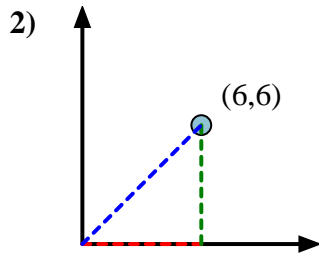
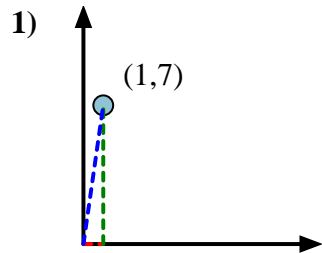


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 $\arctan(1.25) = 51.34^\circ$



Answers



1. 81.87
2. 45.00
3. 14.04
4. 37.87
5. 32.01
6. 6.34
7. 56.31
8. 36.87
9. 38.66
10. 63.43
11. 15.95
12. 74.05