

## Quadratic Function - Vertex

Find the vertex of each quadratic function.

1)  $f(x) = -2x^2 - 8x + 1$

2)  $f(x) = (x - 3)^2 + 2$

3)  $f(x) = -(x - 6)^2 + 12$

4)  $f(x) = (x + 2)(x + 8)$

5)  $f(x) = 2(x - 1)^2$

6)  $f(x) = -5(3x - 3)^2 - 5$

7)  $f(x) = 4(x + 1)^2$

8)  $f(x) = (2x + 1)(2x - 9)$

9)  $f(x) = -x^2 + 6x - 9$

10)  $f(x) = (2x + 1)(2x - 9)$

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