

## Quadratic Function - Vertex

Sheet 3

Find the vertex of each quadratic function.

1)  $f(x) = (x - 3)(2x + 6)$

2)  $f(x) = 2x^2 - 16x + 31$

3)  $f(x) = 3(3x - 9)^2$

5)  $f(x) = -6(3x^2 + 4x + 3)$

7)  $f(x) = 3(x + 2)^2 + 11$

9)  $f(x) = x^2 - 2x + 5$

10)  $f(x) = -5x^2 - 15x - 2$

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Find the vertex of each quadratic function.

1)  $f(x) = (x - 3)(2x + 6)$

2)  $f(x) = 2x^2 - 16x + 31$

**Vertex is (0, -18)****Vertex is (4, -1)**

3)  $f(x) = 3(3x - 9)^2$

**Vertex is (3, 0)**

5)  $f(x) = -6x^2 + 4x + 3$

**Vertex is  $\left(-\frac{2}{3}, \frac{5}{3}\right)$** 

7)  $f(x) = 3(x + 2)^2 + 11$

**Vertex is (-2, 11)**

9)  $f(x) = x^2 - 2x + 5$

10)  $f(x) = -5x^2 - 15x - 2$

**Vertex is (1, 4)****Vertex is  $\left(-\frac{3}{2}, \frac{37}{4}\right)$** **PREVIEW**Gain complete access to the largest  
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