

## 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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