

Quadratic Function - Vertex

Find the vertex of each quadratic function.

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

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

PREVIEW

3) $f(x) = 3(x + 8)(x + 7)$

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

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5) $f(x) = -x^2 - 12x + 1$

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

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7) $f(x) = 3(x - 1)$

8)

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

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