

Quadratic Function - Vertex

Find the vertex of each quadratic function.

1) $f(x) = (x + 3)^2 - 21$

2) $f(x) = (x - 2)^2 - 7$

3) $f(x) = 5(x - 7)(x + 2)$

4) $f(x) = -x^2 - 10x - 9$

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

6) $f(x) = (x - 8)(x - 2)$

7) $f(x) = 8x^2 - 2$

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

9) $f(x) = (x + 16)^2$

10) $f(x) = (x + 7)^2 - 5$

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