

Quadratic Function - Vertex

Sheet 1

Find the vertex of each quadratic function.

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

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

3) $f(x) = 5x^2 - 10x - 9$

5) $f(x) = x^2 - 8x + 16$

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$(x - 8)(x - 2)$

7) $f(x) = 8x^2 + 16x + 8$

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$(2x + 2)(x + 5)$

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9) $f(x) = (4x + 16)^2$

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