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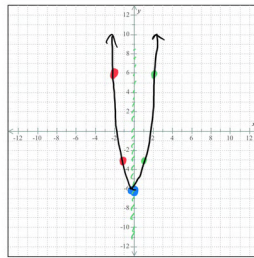
Algebra / Graphing a function of the form $f(x) = ax^2 + c$

Graphing a function of the form $f(x) = ax^2 + c$

Graph the function.

$$g(x) = 3x^2 - 6 \quad a = 3 \text{ opens up b/c positive}$$

Plot five points on the graph of the function: one point with $x = 0$, two points with negative x -values, and two points with positive x -values. Then click on the graph-a-function button.



$$y = ax^2 + c \quad \text{Vertex is always } (0, c)$$

$$\text{Vertex } (0, -6)$$

$$x = 0 \\ g(0) = 3(0)^2 - 6 \\ g(0) = -6 \\ (0, -6)$$

$$x = -1 \\ g(-1) = 3(-1)^2 - 6 \\ \quad \quad \quad 3 - 6 \\ g(-1) = -3 \\ (-1, -3)$$

$$x = -2 \\ g(-2) = 3(-2)^2 - 6 \\ \quad \quad \quad 12 - 6 \\ g(-2) = 6 \\ (-2, 6)$$

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