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Algebra / Graphing a parabola of the form $y = ax^2$

Graphing a parabola of the form $y = ax^2$

Graph the parabola.

$y = -3x^2$ $a = -3$ opens down

Plot five points on the parabola: the vertex, two points to the left of the vertex, and two points to the right of the vertex. Then click on the graph-a-function button.

$y = ax^2 + bx + c$

axis of symmetry
Vertex = Min

Vertex = Max
axis of symmetry

Vertex is always $(0,0)$

$y = ax^2$

$x = 1$
 $y = -3(1)^2$
 $y = -3$
 $(1, -3)$

$x = -2$
 $y = -3(-2)^2$
 $y = -3(4)$
 $y = -12$
 $(-2, -12)$

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