

Smart Notebook

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The y-intercept is $(0, 7)$

$\rightarrow x=0$

Using Standard Form to Vertex Form: (a is the same in both forms)

1. $f(x) = 2x^2 + 8x + 7$ $-4 + 8 - 5$
 $f(x) = 2x^2 + 8x + 7$ $f(x) = x^2 + 4x - 5$

Opens: up Opens: down

Width: stretched by 2 Width: same as x^2

axis of symmetry: $x = -2$ axis of symmetry: $x = 2$

Vertex: $(-2, -1)$ Vertex: $(2, -1)$

Equation: $y = 2(x+2)^2 - 1$ Equation: $y = -(x-2)^2 - 1$

y-intercept: $(0, 7)$ y-intercept: $(0, -5)$

TI-84 Plus C Silver Edition

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