

Quadratics - Vertex Form

This is a great version for graphing. Probably my favorite. It's called vertex form because you can see the vertex easily:

Format \rightarrow $f(x) = a(x-h)^2 + k$

\uparrow \uparrow
 vertex: (h, k)

Ex. 1 $f(x) = (x-5)^2 - 2$

opposite \downarrow \downarrow same
 Vertex: $(5, -2)$

Ex. 2 $f(x) = 3(x+1)^2 + 4$

opposite \downarrow \downarrow same
 Vertex: $(-1, 4)$