

Converting Between Quadratic Forms

Vertex $\longrightarrow$ Factored

$$y = A(x-h)^2 + k$$

$$y = A(x-p)(x-q)$$

* Vertex $\longrightarrow$ Standard $\longrightarrow$ Factored

Ex: $f(x) = (x-2)^2 - 4$ $\star$ VF

Expand $= (x-2)(x-2) - 4$

FOIL

$(2, -4)$