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| Standard Form | Transformational / Vertex Form | Factored Form |
| Formula:$$f\left(x\right)=ax^{2}+bx+c$$ | Formula:$$f\left(x\right)=a\left(x-h\right)^{2}+k$$ | Formula:$$f\left(x\right)=a(x-p)(x-q)$$ |
| Process for rewriting: | Process for rewriting: | Process for rewriting: |
| Parameters:  | Parameters:  | Parameters:  |
| Helpful for finding:x-intercept(s) y-interceptvertex concavityvertical stretch/squish | Helpful for finding:x-intercept(s) y-interceptvertex concavityvertical stretch/squish | Helpful for finding:x-intercept(s) y-interceptvertex concavityvertical stretch/squish |
| C:\Users\serraiiij\Downloads\desmos-graph (50).pngExample:$$\frac{1}{3}x^{2}+3x+1$$ | Example:$$-2\left(x-4\right)^{2}+5$$C:\Users\serraiiij\Downloads\desmos-graph (51).png | C:\Users\serraiiij\Downloads\desmos-graph (53).pngExample:$$\frac{1}{6}(x-5)(x+4)$$ |