

DO NOW

How do you identify each of the following?

1. linear function
equation $\rightarrow$ 1st degree $y = mx + b$
graph $\rightarrow$ Line
2. absolute value function
equation $\rightarrow$ | | signs
graph $\rightarrow$ "V"
3. quadratic function
equation $\rightarrow$ 2nd degree $y = ax^2 + bx + c$
graph $\rightarrow$ parabola

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Review 8.7

Ways to find the axis of symmetry and vertex:

1. $x = \frac{-b}{2a}$ $\leftarrow$ axis of symmetry
plug "x =" into the equation for vertex
2. Vertex form
 $y = a(x-h)^2 + k$
3. Table of values $\leftarrow$ find unique y-value
4. Graph $\leftarrow$ look for axis of symmetry

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Ways to find the roots:

1. TABLE $\rightarrow y = 0$
2. GRAPH $\rightarrow$ X-intercepts
3. Get $= 0$ and factor
4. Completing the square

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HOMEWORK

Worksheet Review 8.7

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