## Algebra 1

Our Goal: To review for the Chapter 8 quiz

Warm Up: Please have your computers out and on
Today's Homework
Textbook Practice Quiz
Previous Homework
8.3 Exercises, p.436-437: 4-30 (evens)

$$
\begin{aligned}
& 0=4 x^{2}+24 x+13 \\
& y=4 x^{2}+24 x+13 \\
& \left(\frac{-b}{2 a},\right. \\
& \left(\frac{-24}{2(4)}, 2\right) \\
& \left(-3,4(-3)^{2}+24(-3)+13\right) \\
& (-3,36-72+13)_{44}^{-2} \\
& (-3,-23) \\
& -6,-3)_{-23}^{-23}
\end{aligned}
$$

Chapter 8 Quiz Topics

- Characteristics of a quadratic function
> Vertex
$>$ Equation of axis of symmetry
$>$ Interval where increasing / decreasing
> y-intercept
> x-intercept(s) or zeros
$>$ Domain/ Range value
- Finding the vertex of a parabola
- Determining the direction of opening
- Determining the width compared to $\mathrm{y}=\mathrm{x}^{2}$
- Graphing parabolas



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$\square$


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$$
p(x)=2 x^{2}+2
$$



$$
y=x^{2}+4 x-5
$$

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$$
y=x^{2}+4 x-5
$$



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