Review Warm-up, Week 8 (#2.1)

1. Determine the *y*-intercept (when *x* = 0).

$$f\left(x\right)=4x^{2}+20x+16$$

1. Determine the roots.

$$f\left(x\right)=4\left(x+4\right)\left(x+1\right)$$

1. Determine the vertex.

$$f\left(x\right)=4\left(x+2.5\right)^{2}-9$$

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Continue on Review Warm-up, Week 8 (#2.1)

1. Identify the vertex, list the transformations, and graph the quadratic.

$$f\left(x\right)=-2\left(x-4\right)^{2}+8$$

1. Solve for *x.*
	1. $x^{2}=4$ b. $x^{2}=9$ c. $x^{2}=16$

d. $\left(x+1\right)^{2}=4$ e. $\left(x+1\right)^{2}=9$

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Continue on Review Warm-up, Week 8 (#2.1)

1. $f\left(x\right)=4\left(x+2\right)^{2}-4$
	1. Identify the vertex.
	2. Identify the transformations.
	3. Determine the y-intercept
	4. Determine the roots. $0=4\left(x+2\right)^{2}-4$
	5. Graph.