

Get out your lesson 2.8 and pg. 52 - they are both due today, we will go over any questions you have after the bell rings.

14. $y = \frac{1}{2}(x-7)(x-7)$
 $\frac{1}{2}(x-7)^2 + 0$

a. Vertex: (7, 0)

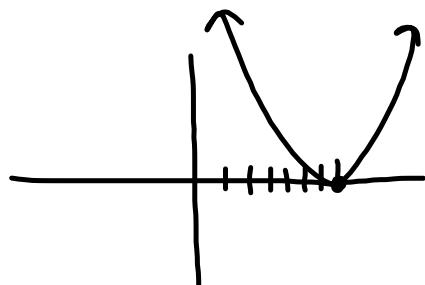
b. x-inter(s) (7, 0) & (7, 0)

c. y-inter (0, 24.5)

d. Stretch $\frac{1}{2}$

x-int:
 $0 = \frac{1}{2}(x-7)(x-7)$

$$\begin{array}{rcl} x-7=0 & \text{or} & x-7=0 \\ +7 +7 & & +7 +7 \\ \hline x=7 & & x=7 \end{array}$$



y-int:
 $y = \frac{1}{2}(0-7)(0-7)$
 $= \frac{1}{2}(-7)(-7)$
 $= \frac{1}{2}(49)$
 $= \frac{49}{2} = 24.5$

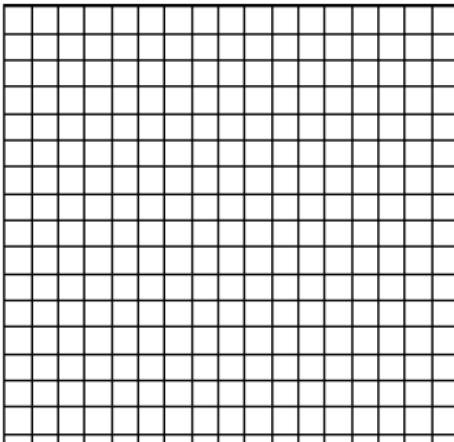
Vertex: (7, 0)
 $x = \frac{7+7}{2} = \frac{14}{2} = 7$
 $y = \frac{1}{2}(7-7)(7-7)$
 $= \frac{1}{2} \cdot 0 \cdot 0$
 $= 0$

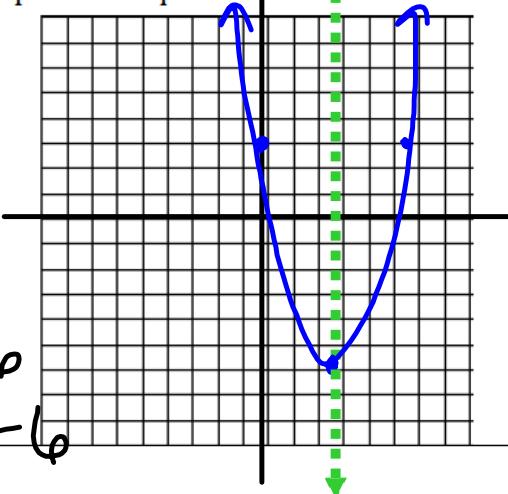
2.9 I've Got a Fill-in

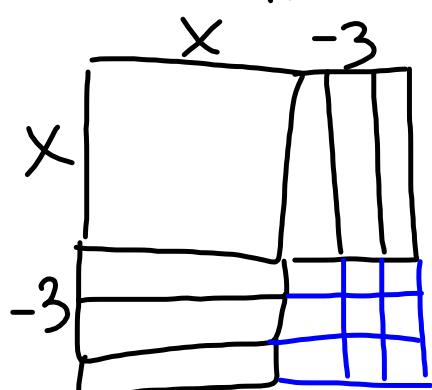
A Practice Understanding Task

For each problem below, you are given a piece of information that tells you a lot. Use what you know about that information to fill in the rest.



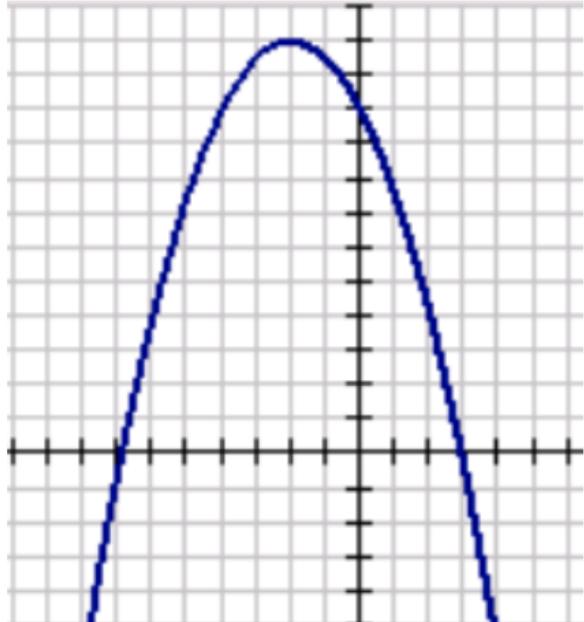
1. You get this:	Fill in this: Factored form on the equation:
$y = x^2 - x - 12$	Graph of the equation: 

2. You get this:	Fill in this: Vertex form of the equation:
$y = x^2 - 6x + 3$ y-int. ① make $y=0$ & move C to L side $0 = x^2 - 6x + 3$ $-3 \quad -3$ \hline $-3 = x^2 - 6x$ ② add $(\frac{b}{2})^2$ to both sides $+9 \quad +9$ \hline $6 = x^2 - 6x + 9$ $(\frac{-6}{2})^2 = 9$ ③ Reverse C ④ move C back to R side $6 = (x-3)(x-3)$ $6 = (x-3)^2$ \hline $0 = (x-3)^2 - 6$ $f(x) = (x-3)^2 - 6$	$f(x) = (x-3)^2 - 6$ vertex: (3, -6) Graph of the equation: 



HW: On pg. 53-56,
finish 3
#5-9 on pg. 57-59

3. You get this:	Fill in this: Vertex form of the equation:
	Standard form of the equation:

4. You get this:	Fill in this: Factored form of the equation:
	Standard form of the equation:

5. You get this:	Fill in this: Either form of the equation other than standard form. Vertex of the parabola x -intercepts and y -intercept
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6.	You get this: $y = 2x^2 + 12x + 13$	Fill in this: Either form of the equation other than standard form. Vertex of the parabola x -intercepts and y -intercept
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7. You get this:	Fill in this:
$y = -2x^2 + 14x + 60$	Either form of the equation other than standard form.
	Vertex of the parabola
	x-intercepts and y-intercept

Homework

Finish 2.9 "Ready, Set, Go"