

Warm-up 3/8/17

Determine the distance between each set of points.

1. $(-6, 0)$ and $(4, 0)$

2. $(-4, 15)$ and $(12, 15)$

$$\sqrt{(4 - (-6))^2 + (0 - 0)^2}$$

$$12 - (-4) = 16$$

$$\sqrt{100}$$

$$10$$

Pg. 894-895

1-3

4-7

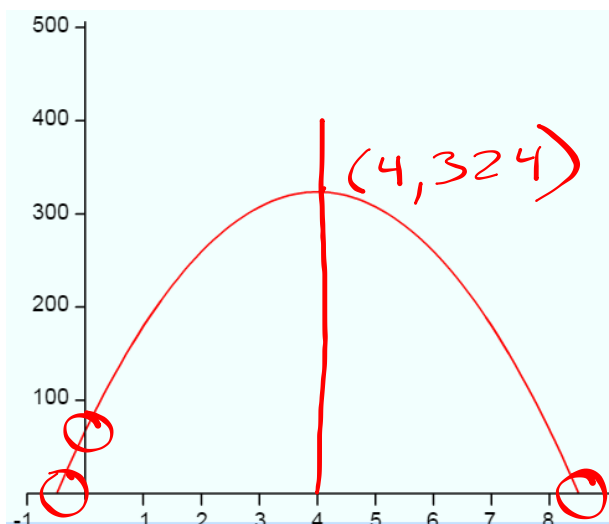
$$y = -16t^2 + 128t + 68$$

$$\text{zeros } \left(-\frac{1}{2}, 0\right)$$

$$\left(8\frac{1}{2}, 0\right)$$

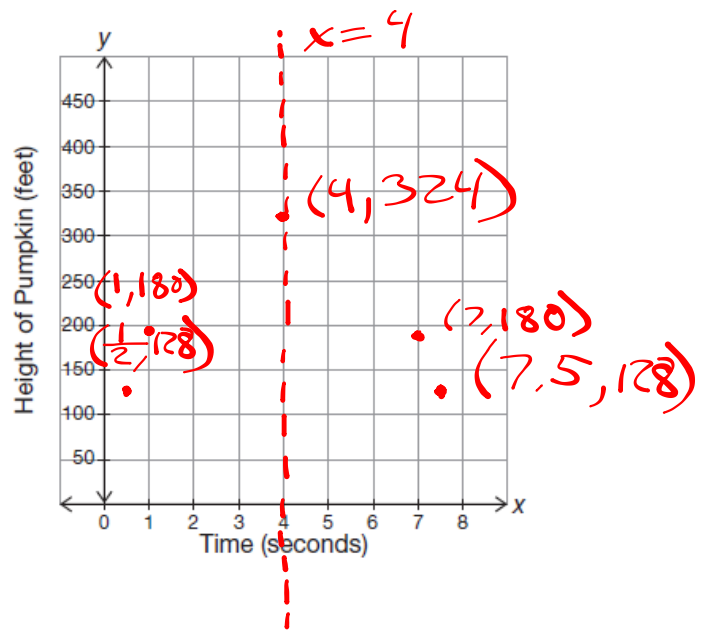
$$y\text{-int. } (0, 68)$$

$$\text{max } -16(4)^2 + 128(4) + 68 = 324$$



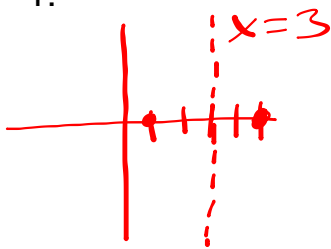
Pg. 896-897

1-6



Pg. 898

1.



$$\frac{-3.5 + 4.1}{2} = .3$$

$$x = .3$$

$$\frac{-7 + 0}{2} = -3.5$$

$$x = -3.5$$

2.

$$x = \#$$

$$(\#, \)$$

$$(-2, -1)$$

$$f(-2) = (-2)^2 + 4(-2) + 3$$

$$= 4 - 8 + 3$$

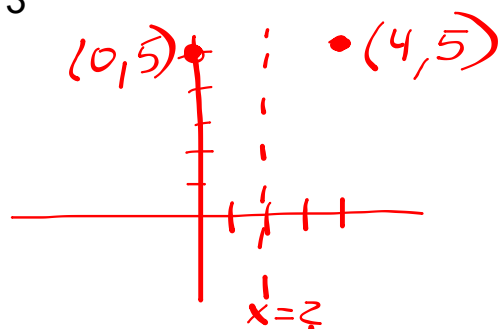
$$= -1$$

$$\frac{-2 + 2}{2} = 0 \quad (0, -4)$$

$$(0)^2 - 4 = -4$$

Pg. 899

3



$$\frac{0 + 4}{2} = 2$$

