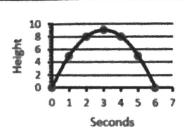
Learning Target #3: Applications of Quadratics

. The path of a rocket being launched from the ground is shown in the graph below, where f(x) is the height of the rocket and x is the number of seconds that have passed since the rocket was fired.



Which of the following points show the maximum height of the rocket?

(a) (0, 0)

(b) (3, 9)

(c) (6, 0)

(d) (2, 8)

. Using the graph from Question #11, how long does it take the rocket to hit the ground?

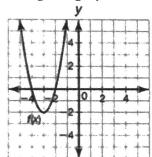
(a) 0 seconds

(b) 3 seconds

(c) 6 seconds

(d) 2 seconds

Using the graph below, calculate the average of change on the interval $-3 \le x \le -2$.



- (a) m = 2
- (b) m = -2
- (c) $m = -\frac{1}{2}$
- (d) $m = \frac{1}{2}$