

Algebra 2 Review 4.1-4.4
Midchapter Test Mon.

Quiz 4.3-4.4 Fri.

$$5) \sqrt{-196}$$

1. Find the y-intercept, the equation of the axis of symmetry, and the x-coordinate of the vertex for $f(x) = 2x^2 + 8x - 3$. Then graph the function by making a table of values.

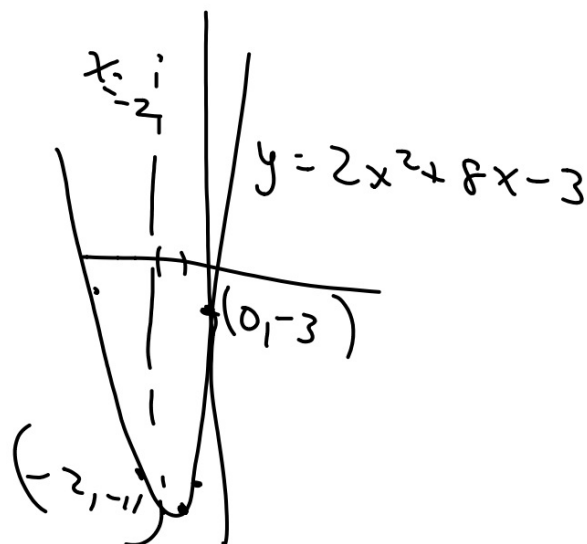
(Lesson 4-1)

$$x = \frac{-8}{2 \cdot 2} = \frac{-8}{4} = -2$$

$$x = -2$$

$$y \text{ int } (0, -3)$$

	$2x^2 + 8x - 3$	
-2	$2 \cdot 4 + -16 - 3$	-11
-1	$2 \cdot 1 + -8 - 3$	-9
0	$0 + 0 - 3$	-3



2. **MULTIPLE CHOICE** For which equation is the axis of symmetry $x = 5$? (Lesson 4-1)

$\frac{5}{2}$ ~~A~~ $f(x) = x^2 - 5x + 3$ $-\frac{b}{2a} = 5$

$\frac{10}{2}$ **B** $f(x) = x^2 - 10x + 7$

C $f(x) = x^2 + 10x - 3$

D $f(x) = x^2 + 5x + 2$

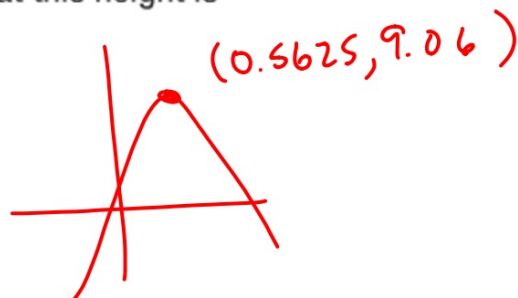
4. **PHYSICAL SCIENCE** From 4 feet above the ground, Maya throws a ball upward with a velocity of 18 feet per second. The height $h(t)$ of the ball ~~t seconds~~ after Maya throws the ball is given by $h(t) = -16t^2 + 18t + 4$. Find the maximum height reached by the ball and the time that this height is reached. (Lesson 4-1)

$$h(t) = -16t^2 + 18t + 4$$

$$x = \frac{-18}{-32} = 0.5625$$

$$= -16(0.5625)^2 + 18(0.5625) + 4$$

$$= -5.0625 + 10.125 + 4$$



MCQ odds
p255