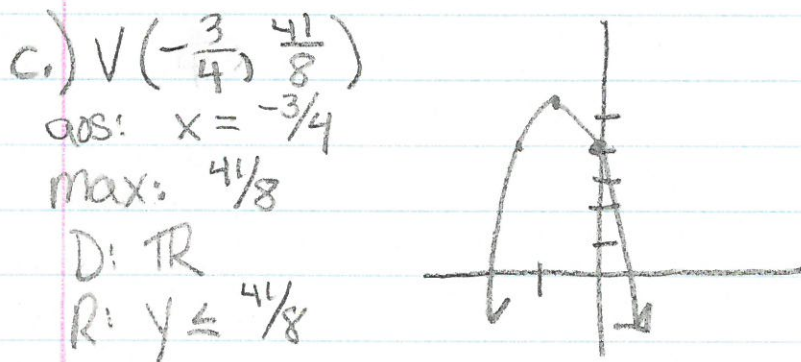
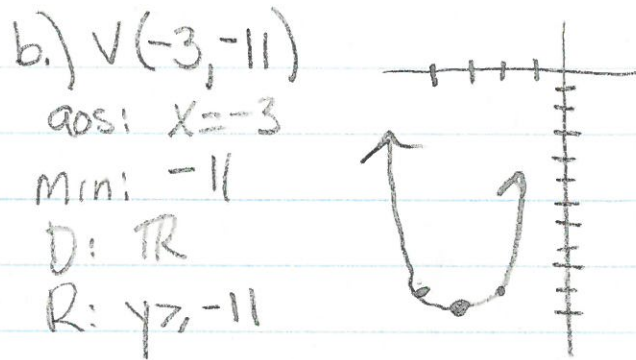
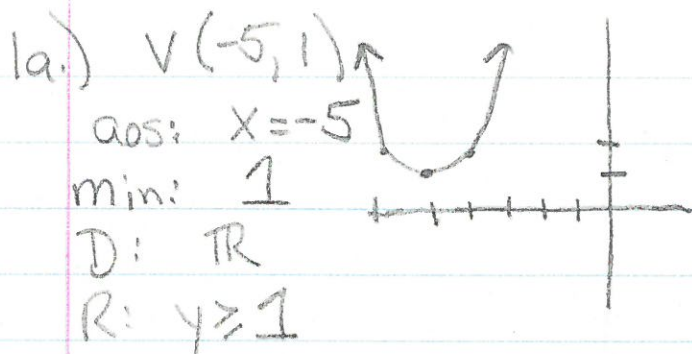


# Algebra II Quadratics Review



2a.)  $f(x) = -2(x + \frac{3}{4})^2 + \frac{41}{8}$       b.)  $f(x) = 3(x-1)^2 - 11$

3a.)  $y = -2x^2 + 12x - 7$       b.)  $f(x) = \frac{2}{3}x^2 + 8x + 23$

4.) a.)  $(0, 100)$

b.) The ball is 100 meters off the ground before it is dropped.

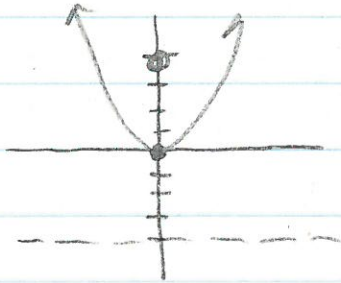
5.) a.) 30 ft.      b.) 1.25 seconds

6.)  $y = x^2 - 2x + 3$

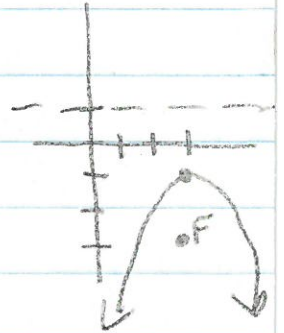
7.) a.)  $g(x) = \frac{1}{2}(x+2)^2 + 8$       b.)  $g(x) = -2(x-7)^2 - 5$

8.) a)  $y = \frac{1}{16}(x+1)^2 + 3$     b.)  $y = \frac{1}{8}(x-3)^2$     c.)  $y = \frac{1}{6}(x-5)^2 - 5.5$

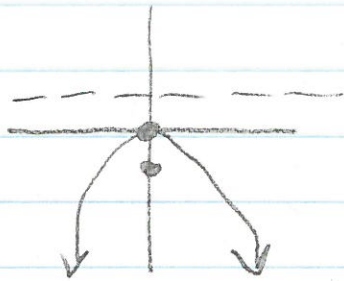
9.) a.)  $V(0,0)$   
 $F(0,4)$   
 dir:  $y = -4$   
 aos:  $x = 0$



b.)  $V(3,-1)$   
 $F(3,-3)$   
 dir:  $y = 1$   
 aos:  $x = 3$



c.)  $V(0,0)$   
 $F(0,-1)$   
 dir:  $y = 1$   
 aos:  $x = 0$



10.)  $y = -16x^2 + 150$     29 feet

11.)  $(-4,6)$  to vertex =  $-1$   
 vertex to  $(-1,7) = \frac{3}{1} = 3$