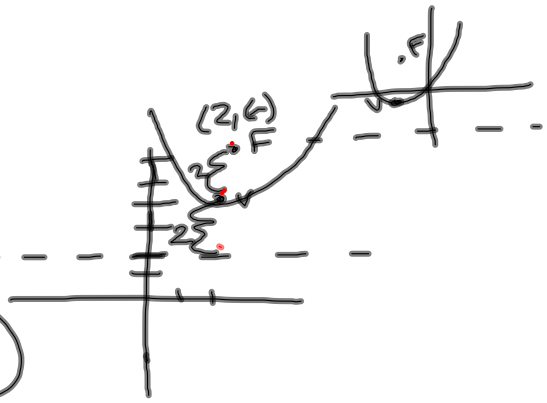
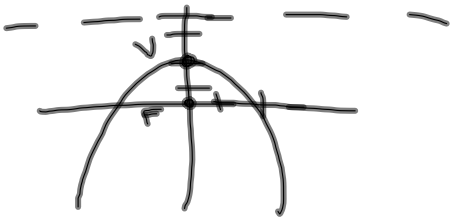
2. D: $y=2$
V(2,4)



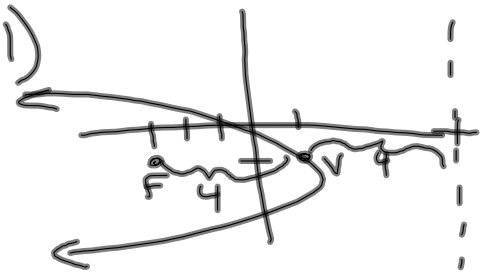
F: (2,6)

3. V(0,2)
F(0,0)



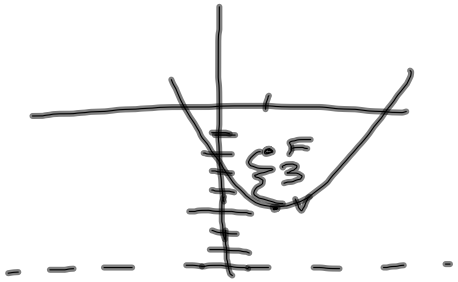
D: $y=4$

4. F(-3,-1)
V(1,-1)



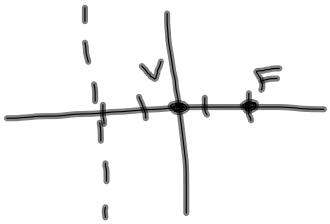
$x=5$

5. F(1,-2)
V: (1,-5)



D: $y=-8$

6. D: $x=-2$
F(2,0)



V(0,0)

HW Assessment

5/3/10

1. V(4,2)

D: y=-3

find the focus

Parabolic is Quadratic

$y \pm b = a(x \pm c)^2$

$x \pm b = a(y \pm c)^2$

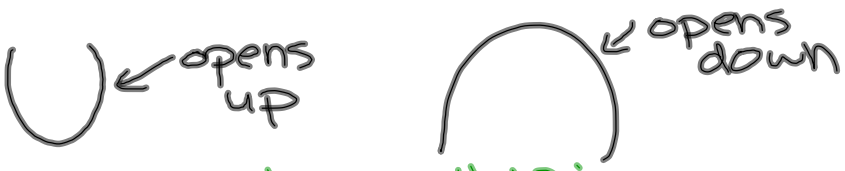
$y = ax^2 + bx + c$

$f(x) = ax^2 + bx + c$

1a) $y - 7 = \frac{1}{2}(x+3)^2$

a) Parabolic

b) $\frac{1}{2} > 0$ ∴ open up



we can also tell if it opens up/down by graphing.

$y - 7 = \frac{1}{2}(x+3)^2$

$+7 \quad +7$

$y = \frac{1}{2}(x+3)^2 + 7$

c) Vertex: $(-3, 7)$

d) y-intercept: $x = 0$

$y - 7 = \frac{1}{2}(0+3)^2$

$+7$

$y = \frac{1}{2}(0+3)^2 + 7$

$y = \frac{9}{2} + 7 = 4.5 + 7 = 11.5$