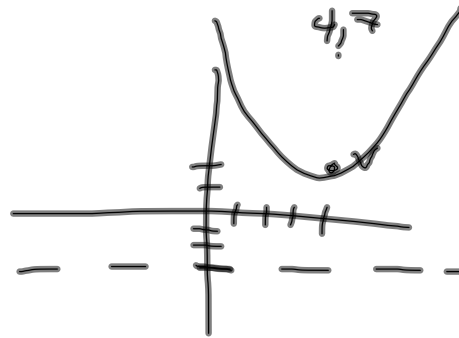


5, 4, 6, 1, 3

1. $V(4, 2)$

$D: y = -3$

$F: (4, 7)$



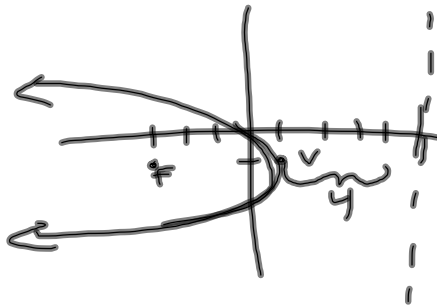
3. $V(0, 2)$
 $F(0, 0)$

$Y = 4$



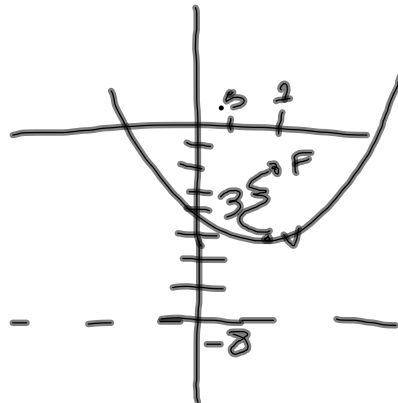
4. $F(-3, -1)$
 $V(1, -1)$

$D: x = 5$



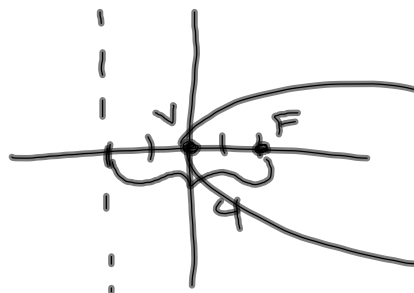
5. $F(1, -2)$
 $V(1, -5)$

$y = -8$



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

$V: (0, 0)$



HW Assessment
5/3/10

2. D: $y = 2$

V: $(2, 4)$

Find the coordinates of
the focus.

Quiz Corrections

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

quadratic form:
 $y = ax^2 + bx + c$

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

1. a) parabolic form

b) opens up because $\frac{1}{2} > 0$

c) (-3, 7)

d) y-intercept: $x = 0$

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

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

$$y - 7 = \frac{1}{2}(9)$$

$$y - 7 = 4.5$$

$$\underline{y = 11.5} \quad (0, 11.5)$$

e) x-intercepts $y = 0$

because the math is hard,
 I like to graph the EQ first.

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

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

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

$$2(-7) = (x + 3)^2$$

$$\sqrt{-14} = x + 3$$

$$x + 3 = \pm 3.74i \leftarrow \text{imaginary}$$

$$x = -3 \pm 3.74i \leftarrow \text{AKA DOES NOT CROSS X-AXIS}$$