Math-2

HW 4-5 Key (for Odd numbered problems)

1. (1, 4)

3. $y = -5|x - 2| + 1$

5. $y = -3|x - 1| + 2$

7. f(-2) = 3  f(0)= -5

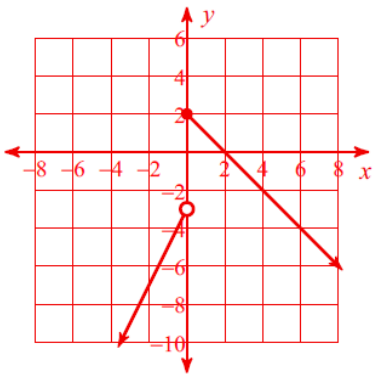
9. a) (0, 1)  (b) reflected (x-axis), VSF=3, up 1

11. $y = -2x^2 + 4$

13. a) reflected (x-axis), VSF=2, right 3, down 5

15. $y = \sqrt{-x} + 3$

17.




19.

a) x = (-∞, -1)
b) x = (-1, ∞)
c) x = (-3, 1)
d) neither
e) Absolute max at (-1, 4)
f) reflected (x-axis), VSF=2, left 1, up 4
g) x --> (+ or -) ∞, y --> -∞
h) all real numbers
i) $y \le 4$
j) $m = -2$
k) $y = -2|x + 1| + 4$