

HW 20

p210 # 1-5, 10

1. a) $y = \sqrt{x} + 3$

b) $y = \sqrt{x+5}$

c) $y = \sqrt{x+5} + 2$

d) $y = \sqrt{x-3} + 1$

e) $y = \sqrt{x-1} - 4$

2. a) $y = \sqrt{x-3}$ right 3

b) $y = \sqrt{x+3}$ left 3

c) $y \stackrel{?}{=} \sqrt{x}$
 $y = \sqrt{x} + 2$ up 2

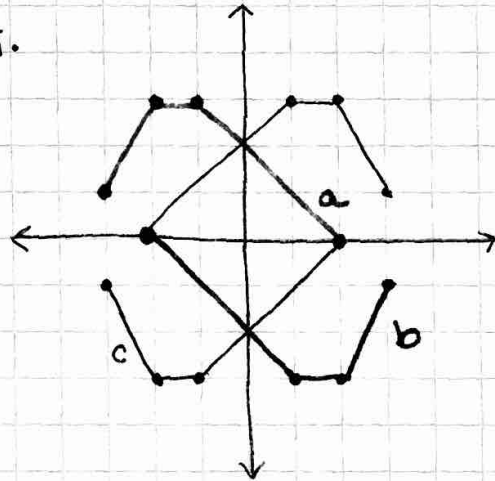
d) $y + 2 = \sqrt{x}$
 $y = \sqrt{x} - 2$ down 2

3. a) iii

b) i

c) ii

4.



a) $y = f(-x)$ make all ~~negative~~ x-values opposite

b) $y = -f(x)$ make all y-values opposite

c) $y = -f(-x)$ make x & y values opposite

5. a) $y = -\sqrt{x}$

b) $y = -\sqrt{x} - 3$

c) $y = -\sqrt{x+6} + 5$

d) $y = \sqrt{-x}$

e) $y = \sqrt{-(x-2)} - 3$ OR $y = \sqrt{-x+2} - 3$

10. a) $y = -x^2$
b) $y = -x^2 + 2$
c) $y = -(x-1)^2$
d) $y = -(x-1)^2 - 3$

