

# Chapter 4 Review

(P1)

① Graph  $f(x) = -4x$

②

Slope = -4  
y-intercept = 0

LINE

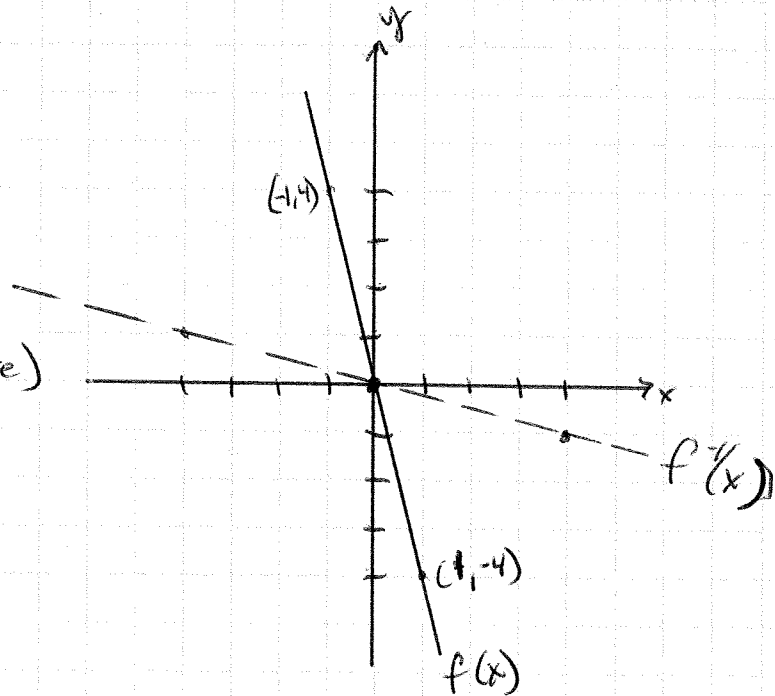
③ graph the inverse  
(used --- line for inverse)

Switch x & y of each point

$$(0,0) \rightarrow (0,0)$$

$$(-1,4) \rightarrow (4,-1)$$

$$(1,-4) \rightarrow (-4,1)$$



④ Find inverse equation:

original equation:  $y = 4x$

Switch x & y:  $x = 4y$

Solve for y:  $\frac{x}{4} = y$

use  $f^{-1}(x)$  notation:  $\frac{x}{4} = f^{-1}(x)$

② ① Graph  $y = \frac{5}{4}x - 7$  (slope =  $\frac{5}{4}$ )  
LINE (y-int = -7)

② graph inverse (used ---)

③ Find inverse equation:  $y = \frac{5}{4}x - 7$

$$x = \frac{5}{4}y - 7$$

$$x + 7 = \frac{5}{4}y$$

$$\frac{4}{5}(x + 7) = y$$

