

HW7

A2

MPYS 3.3 ans.

1. a. ~~$y = 2x + 1$~~ $y - 3 = 2(x - 1)$
 b. ~~$y = 3/2x - 2.5$~~ $y - 2 = -3/2(x + 3)$

2. a. $y - 10 = 0.75(x + 4)$
 b. $y + 5 = 4(x - 2)$
 c. $y + 7 = -5(x - 2)$
 d. $y = 4/5(x + 10)$
 e. $y + 2 = 1/3(x - 1)$
 f. slope: $\frac{4 - -8}{-6 - 3} = \frac{12}{-9} = -\frac{4}{3}$

$$y + 8 = -4/3(x - 3)$$

3. a. $d = 9 - 4(25) = -91$

b. $240 = -20x + 600$

$$x = 18$$

c. ~~$2.9 = 3.5 + 0.4(-9.9)$~~ $2.9 = -3.5 + 0.4(n - 12)$

~~$n = -7.4$~~

$$n = 4$$

4. $-\frac{7}{2} = \frac{-29 + 15}{2w - 1 - w}$

$$-\frac{7}{2} = \frac{-14}{w - 1}$$

$$-28 = -7w + 7$$

$$-35 = -7w$$

$$\boxed{5 = w}$$

5. $y = 4x + 45$ where $x = 0$ @ 2010

b. 2020 means $x = 10$

$$y = 40 + 45 = 85$$