

HW37

p179 #1, 2, 8-10, 17-23, 29-31, 45-48

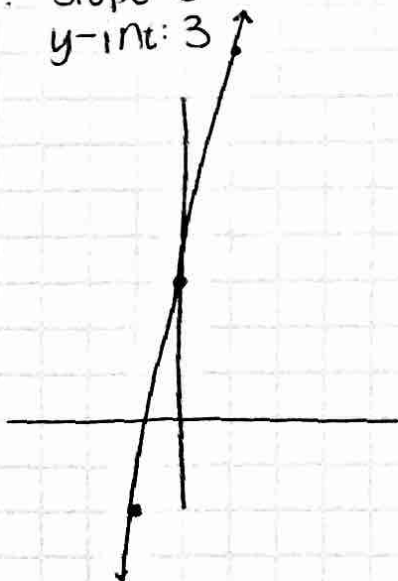
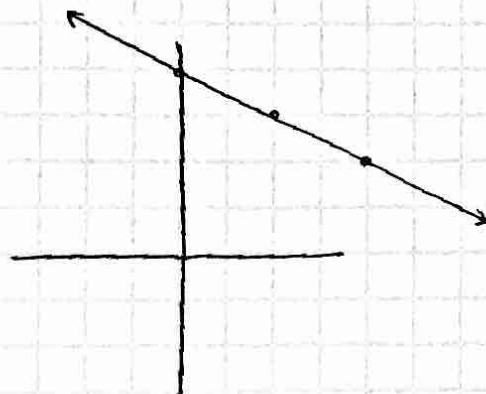
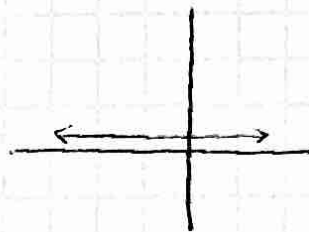
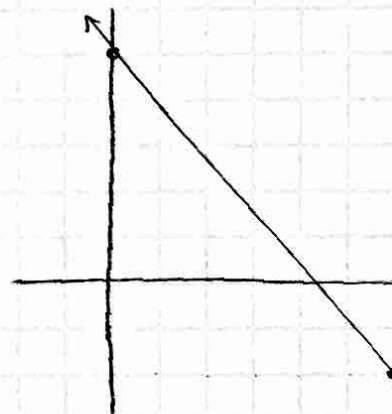
1. slope - intercept

2. slope

8. a) iii  
b) i  
c) v  
d) ii  
e) iv

9. a) L2  
b) L3  
c) L1

10. a) L2  
b) L1  
c) L3

17. slope: 5  
y-int: 319. slope:  $-\frac{1}{2}$   
y-int: 421.  $5x = 2$   
 $x = \frac{2}{5}$ 23.  $4y = -7x + 30$   
 $y = -\frac{7}{4}x + 5$ 

29.  $m = \frac{0-9}{0-0} = -\frac{9}{0} = \boxed{\frac{-3}{2}}$

30.  $m = \frac{-8-0}{0-12} = \frac{-8}{-12} = \boxed{\frac{2}{3}}$

31.  $m = \frac{0-2}{1-3} = \frac{2}{2} = \boxed{1}$

$$65. m = \frac{5 - (-1)}{-5 - 5} = \frac{6}{-10} = -\frac{3}{5}$$

$$y = -\frac{3}{5}x + b$$

$$5 = -\frac{3}{5}(-5) + b$$

$$5 = 3 + b$$

$$2 = b$$

$$\boxed{y = -\frac{3}{5}x + 2}$$

$$66. m = \frac{-4 - 3}{-4 - 4} = \frac{-7}{-8} = \frac{7}{8}$$

$$y = \frac{7}{8}x + b$$

$$3 = \frac{7}{8}(4) + b$$

$$3 = \frac{7}{2} + b$$

$$-\frac{1}{2} = b$$

$$\boxed{y = \frac{7}{8}x - \frac{1}{2}}$$

$$67. m = \frac{7 - 1}{-8 - -8} = \frac{6}{0} \text{ undef.}$$

$$\boxed{x = -8}$$

$$68. m = \frac{4 - 4}{6 - -1} = \frac{0}{7} = 0$$

$$\boxed{y = 4}$$