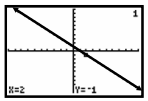
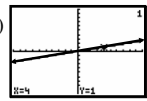
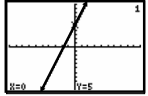
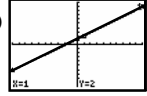
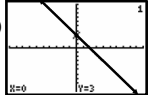

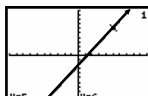
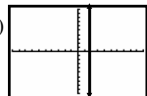


**Algebra II**  
pg 116

26)  33)  38) 1.25 mi

28)  34)  40) k = 3

30)  35)  42) k = 1

32)  36)  44) k = 4

14) m = 1  
4) 0  
6) -1/3  
8) 4  
10) -4  
12) 1

16) m = 4/3  
18) m = 3/2  
20) m = -1/2  
22) m = 1/2  
24) m = -5/3

39) k = -2

8)  $(\frac{1}{2}, -2)(0, -4)$  10)  $(.5, 2.4)(1.5, -1.6)$

$$m = \frac{-4 - (-2)}{0 - \frac{1}{2}} = \frac{-2}{-\frac{1}{2}} = 4$$

$$m = \frac{2.4 - (-1.6)}{0.5 - 1.5} = \frac{4}{-1} = -4$$

12)  $(a, b)(-b, -a)$   $a \neq -b$

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

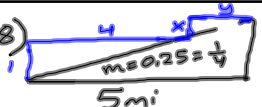
20)  $2(1-y) = x$   
 $2 - 2y = x$   
 $2 - x = 2y$   
 $\frac{2-x}{2} = y$       $1 - \frac{1}{2}x = y$   
 $m = -\frac{1}{2}$

16)  $4x - 3y = 3$

$$4x - 3 = 3y$$

$$\frac{4}{3}x - 1 = y$$

$m = \frac{4}{3}$

38)   $m = 0.25 = \frac{1}{4}$

$$\frac{1}{4} = \frac{1}{4}x$$

$$\frac{1}{4} = \frac{1}{4}x$$

38) 5mi  $m = .25 = \frac{1}{4}$  44)  $(k, k+1)(3, 2)$   $m = 3$

$$m = \frac{k+1-2}{k-3} = 3$$

$$(k-3) \cdot \frac{k-1}{k-3} = 3$$

40)  $6x + ky = 10$   $m = -2$

$$ky = -6x + 10$$

$$y = -\frac{6}{k}x + \frac{10}{k}$$

$$m = -2$$

$$k(-\frac{6}{k} = -2) \rightarrow -6 = -2k$$

$$3 = k$$

20)  $2(1-y) = x$   
 $2 - 2y = x$   
 $2 - x = 2y$   
 $-\frac{1}{2}x + 1 = y$   
 $m = -\frac{1}{2}$

42)  $(k+1)x + 2y = 6$   
 $2y = -(k+1)x + 6$   
 $y = \frac{-(k+1)}{2}x + 3$   
 $2(\frac{-(k+1)}{2} = k-2)$   $m = k-2$   
 $-k-1 = 2k-4$   
 $3 = 3k$   
 $1 = k$

46)  $(k+1, 3+2k)(k-1, 1-k)$   $m = k$

$$m = \frac{y_2 - y_1}{x_2 - x_1} = \frac{(3+2k) - (1-k)}{(k+1) - (k-1)} = \frac{3+2k-1+k}{k+1-k+1}$$

$$= \frac{2+3k}{2}$$

$$\frac{2+3k}{2} = k$$

$$2+3k = 2k$$

$$2 = -k$$

$$-2 = k$$