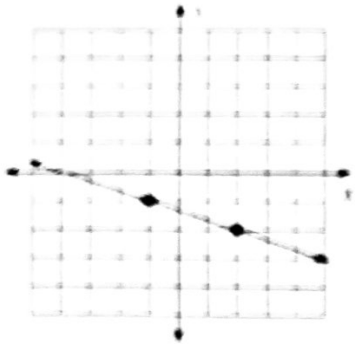
Mid Ch 4 Practice Quiz

KEY

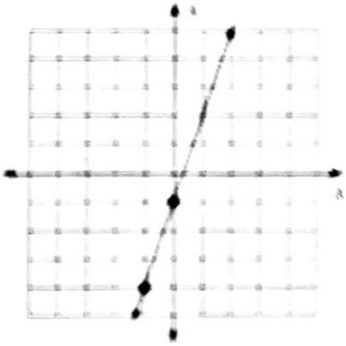
Find the slope of each line.

1)



$\boxed{\frac{-1}{3}}$

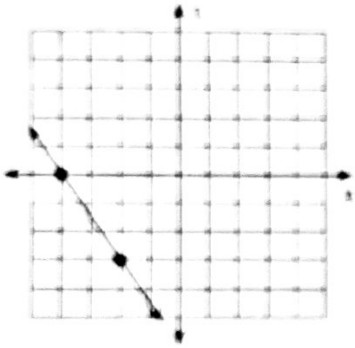
2)



$\frac{3}{1}$

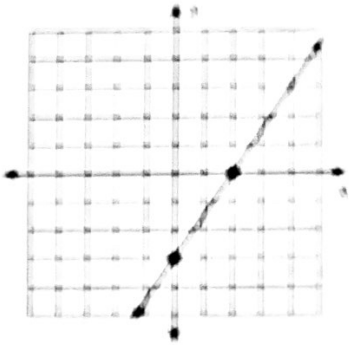
$\boxed{m = 3}$

3)



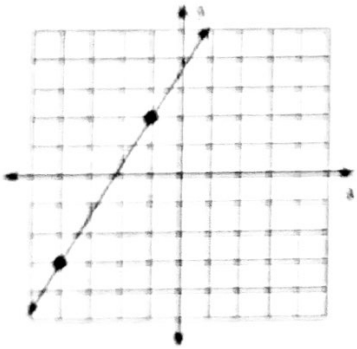
$\boxed{\frac{-3}{2}}$

4)



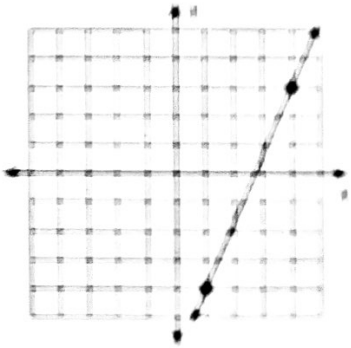
$\boxed{\frac{3}{2}}$

5)



$\boxed{\frac{5}{3}}$

6)



$\boxed{\frac{7}{3}}$

Find the slope of the line through each pair of points:

7) (8 , 10) , (-7 , 14)

$\frac{14-10}{-7-8} = \frac{4}{-15}$ $\boxed{-\frac{4}{15}}$

8) (-3 , 1) , (-17 , 2)

$\frac{2-1}{-17+3} = \frac{1}{-14} = \boxed{\frac{1}{-14}}$

9) (-20 , -4) , (-12 , -10)

$\frac{-10+4}{-12+20} = \frac{-6}{8} = \boxed{\frac{-3}{4}}$

10) (-12 , -5) , (0 , -8)

$\frac{-8+5}{0+12} = \frac{-3}{12} = \boxed{\frac{-1}{4}}$

11) (18 , 20) , (18, 15)

$\frac{15-20}{18+18} = \frac{35}{0}$ $\boxed{\text{undefined}}$

12) (8 , 10) , (-7 , 10)

$\frac{10-10}{-7-8} = \frac{0}{-15} = \boxed{0}$

Tell whether the lines are parallel, perpendicular or neither.

13. x = 4 and y = 3

perpendicular

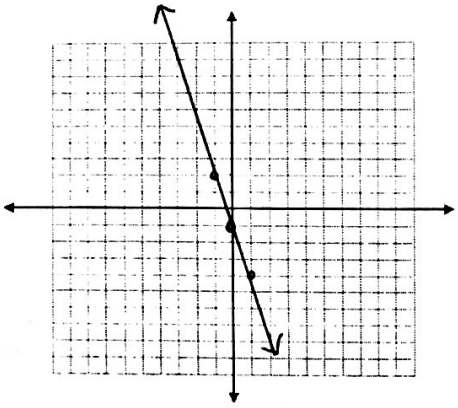
14. x = 5 and x = 6

parallel

Complete the table and graph the line.

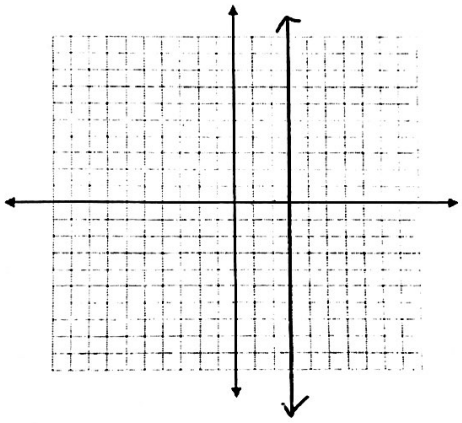
15. y = -3x – 1

x	y
-1	2
0	-1
1	-4



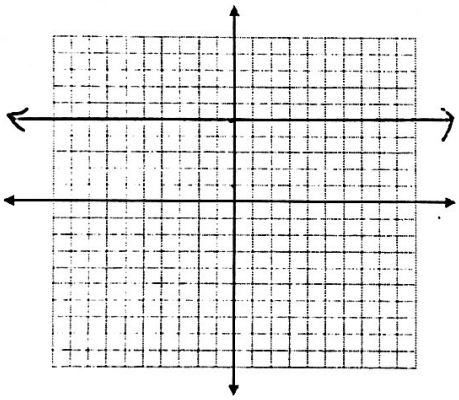
16. x = -3

x	y
~~-3~~	
-3	
-3	



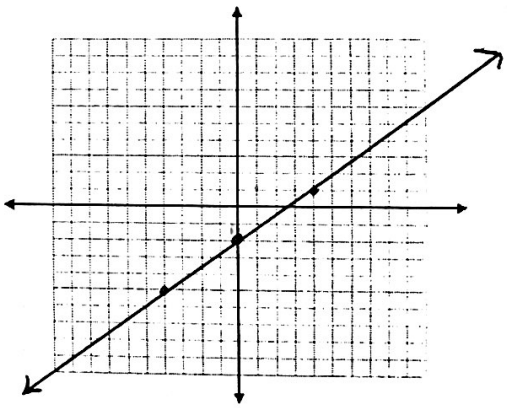
17. y = 5

x	y



18. $y = \frac{3}{4}x - 2$

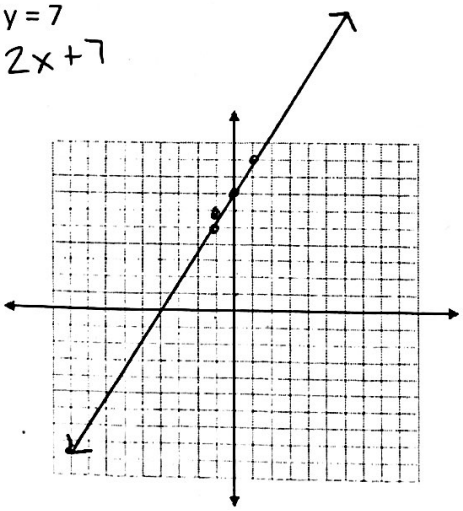
x	y
-4	-5
0	-2
4	1



19. -2x + y = 7

$y = 2x + 7$

x	y
-1	5
0	7
1	9



20. 3x – 2y = 8

$\frac{3x}{2} - \frac{8}{2} = \frac{2y}{2}$

$\frac{3}{2}x - 4 = y$

x	y
-2	-7
0	-4
2	-1