

MTH 111 Chapter 8 Graded Homework
 Answer Key

8.1 #8

8. $-4x - 7y = -3$ $(-1,)$ $(0,)$ $(-8,)$

$(-1, -1), (0, \frac{3}{7}), (-8, -5)$

8.1 #20

20. $2x + 7y = -12$ $(1,)$ $(0,)$ $(-8,)$

$(1, -2), (0, -\frac{12}{7}), (-8, \frac{4}{7})$

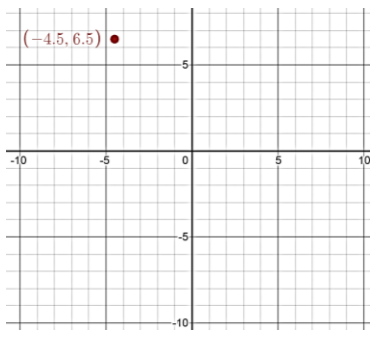
8.1 #32

32. $4x - 5y = 10$

$y = \frac{4}{5}x - 2$

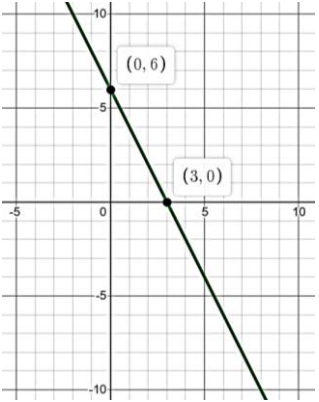
8.1 #66

66. $T(-4\frac{1}{2}, 6\frac{1}{2})$



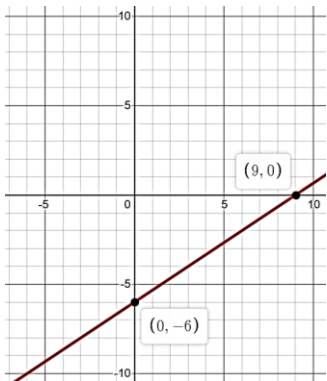
8.2 #6

6. $2x + y = 6$



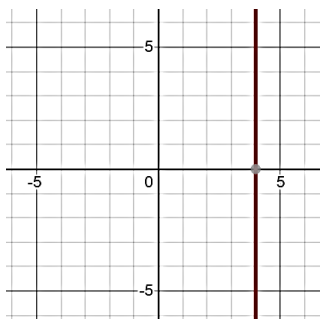
8.2 #20

20. $y = \frac{2}{3}x - 6$



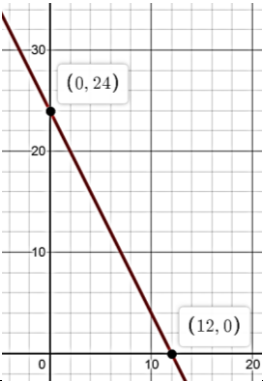
8.2 #28

28. $x - 4 = 0$



8.2 #46

46. The distance, s (in metres), that a point travels in t milliseconds is given by the equation $s = 24 - 2t$. Graph the equation for nonnegative values of s and t .

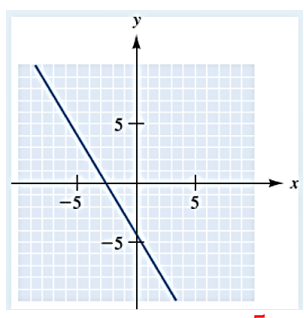


8.3 #6

6. $(1, -6), (-2, 0)$

$m = -6$

8.3 #16



$m = -\frac{5}{3}$

8.3 #30

30. $y + 15 = 0$

$m = 0$

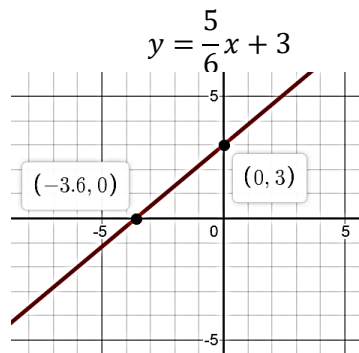
8.3 #36

36. $x + 2y = 11$
 $2x + 4y = -5$

parallel

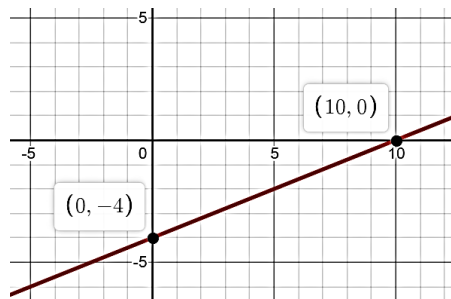
8.4 #8

$$8. m = \frac{5}{6}, b = 3$$



8.4 #18

$$18. 2x - 5y = 20$$



8.4 #28

$$28. m = -\frac{12}{5}, b = -1$$

$$y = -\frac{12}{5}x - 1$$
$$12x + 5y = -5$$

8.4 #36

$$36. (-3, -3), m = \frac{1}{2}$$

$$x - 2y = 3$$

8.4 #48

$$48. (4, 5), m = -\frac{3}{7}$$

$$3x + 7y = 47$$

8.4 #60

$$60. (16, 12), (4, 8)$$

$$-x + 3y = 20$$