5.2 Notes

"Use Linear Equations in Slope-Intercept Form"

5.1 Answers (p. 286) → 24 total

4) $y = x + 5$ 6) $y = -7x + 1$

8) $y = \frac{3}{4}x - 6$ 10) $y = x - 4$

12) $y = -3x + 4$ 14) $y = -x - 3$

16) The given slope and y-int were switched.
The correct answer is $y = 2x + 7$ (2 points)

18) $y = 1/3\,x + 2$ 20) $y = -1/4\,x + 3$

22) $y = x - 4$ 24) $y = -3x - 8$

26) $y = -4$ 28) $y = -8/3\,x + 5$

32) $y = -1/4\,x - 2$ 36) $y = -2x + 21$

42) $y = \frac{1}{2}x$ 46) $c = 3.99e + 1.49$ → \$33.41 (2)

48) a → $a = 0.0037e + 3$ b → dv = a , iv = 5
c → substitute 2 for "e" to get about 3 (3)

58) -0.5 62) -1/4

Example #1 → Write an equation of the line that passes through the given points and has the given slope.

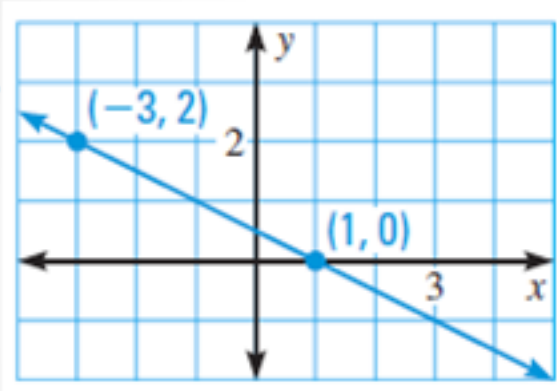
Point $(8, -4)$, $m = -3/4$

Example #2 → Write an equation of the line that passes through the given points.

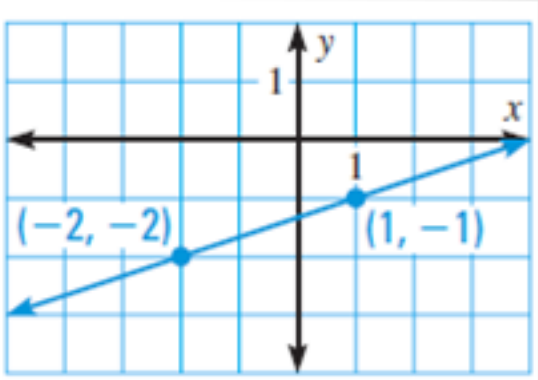
(10, -5) and (-5, 1)

Example #3 → Write an equation of the line shown.

a.



b.



Example #4 → Write an equation for a linear function f that has the given values.

$$f(-2) = 15 \quad , \quad f(1) = 9$$

Example #5 → Tell whether the given information is enough to write an equation of a line. Justify your answer.

..... The slope and a point on a line.

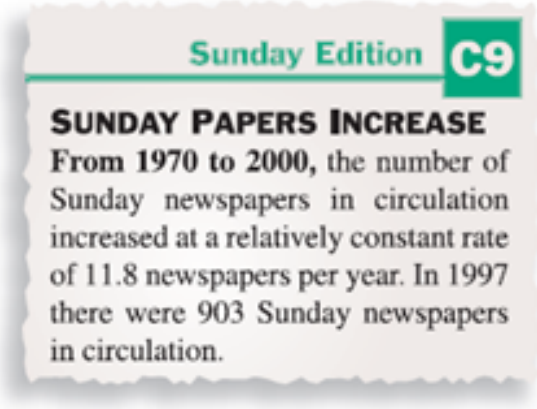
Example #6 → Word Problem Practice.

51. **NEWSPAPERS** Use the information in the article about the circulation of Sunday newspapers.

a. About how many Sunday newspapers were in circulation in 1970?

b. Write an equation that gives the number of Sunday newspapers in circulation as a function of the number of years since 1970.

c. About how many Sunday newspapers were in circulation in 2000?



Sunday Edition C9

SUNDAY PAPERS INCREASE

From 1970 to 2000, the number of Sunday newspapers in circulation increased at a relatively constant rate of 11.8 newspapers per year. In 1997 there were 903 Sunday newspapers in circulation.

HOMEWORK:

Page 296 - 298
#'s 4- 40 even,
48, 50, 52