

5.2 Ans. Pgs. 296-298 (22 points)

4)
$$y = 2x - 9$$

6)
$$v = 2x + 5$$

8)
$$y = \frac{1}{2}x - 9\frac{1}{2}$$

10) The value of \$18 per month should have been substituted for m, not b.

$$81 = 18(2) + b$$

12)
$$y = 7x - 19$$

$$-14) y - 2x + 12$$

16)
$$y = -\frac{1}{2}x - \frac{7}{4}$$

18)
$$y = \frac{2}{5}x + \frac{4}{5}$$

 $\frac{20}{y} = \frac{7}{6}x + \frac{11}{6}$

$$22)y = -3x - 7$$

$$24)y = -x - 4$$

26)
$$y = \frac{3}{4}x - 5$$

$$\frac{28}{y} = 3x - 6$$

30)
$$y = -\frac{1}{4}x + 5$$

32)
$$y = -\frac{1}{2}x + 3$$

36) (2 pts.) No + Reason

38)
$$y = \frac{3}{2}x - \frac{1}{2}$$

40)
$$y = \frac{3}{2}x + \frac{11}{2}$$

50) (3 points) a) \$358

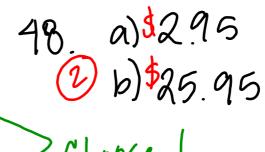
b)
$$y = 27.8x + 358$$

c) \$886.20

52) (3 points) a) b= 17, 381

b)
$$y = 175x + 17, 381$$

c) Number of US airports reached 19,200 in 2000.

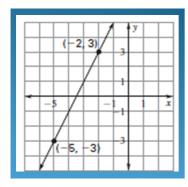


Example #1 -> Write an equation in point-slope form of the line that passes through the given point and has the given slope.

a)
$$(-8, 2)$$
, $m = 5$ b) $(3, -4)$, $m = 2/5$

Example #2 \Rightarrow Graph the equation. y + 4 = -5/2 (x - 3)

Example #3 \rightarrow Write an equation of the line shown.

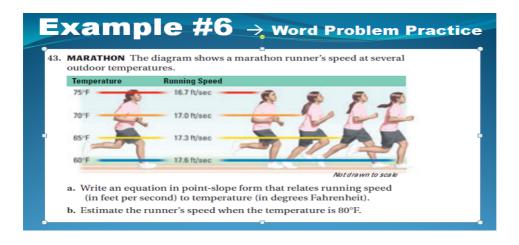


Example #4 \rightarrow Write an equation in point-slope form for the line that passes through the given points.

(-4, -1) and (6, -7)

Example #5 \rightarrow Tell whether the data in the table can be modeled by a linear equation. Explain. If possible, write an equation in point-slope form that relates x and y.

X	-2	-1	0	2	3
y	2.8	2.4	2	1.2	0.8



HOMEWORK:

Pages 305-308 #'s 2-26 even - Skip #14 30, 32, 34, 40, 42