

60. Through $(-5, 2)$ and parallel to the line through $(1, 2)$ and $(4, 3)$.

The slope of the given line is

$$m = \frac{2-3}{1-4} = \frac{-1}{-3} = \frac{1}{3}, \text{ so the slope of a line}$$

parallel to the line is also $\frac{1}{3}$.

$$(x_1, y_1) = (-5, 2)$$

$$y - y_1 = m(x - x_1)$$

$$y - 2 = \frac{1}{3}(x - (-5))$$

$$3y - 6 = x + 5$$

$$3y = x + 11$$

61. Through $(-1, 3)$ and perpendicular to the line through $(0, 1)$ and $(2, 3)$.

The slope of the given line is

$$m_1 = \frac{1-3}{0-2} = \frac{-2}{-2} = 1, \text{ so the slope of a line}$$

perpendicular to the line is $m_2 = \frac{-1}{1} = -1$.

$$(x_1, y_1) = (-1, 3)$$

$$y - y_1 = m(x - x_1)$$

$$y - 3 = -1(x - (-1))$$

$$y - 3 = -x - 1$$

$$y = -x + 2$$

62. y -intercept 3 and perpendicular to

$$2x - y + 6 = 0,$$

$$2x - y + 6 = 0 \Rightarrow y = 2x + 6$$

The slope of this line is 2, so the slope of a line

perpendicular to the line is $-\frac{1}{2}$.

$$(x_1, y_1) = (0, 3)$$

$$y - y_1 = m(x - x_1)$$

$$y - 3 = -\frac{1}{2}(x - 0)$$

$$2y - 6 = -x$$

$$2y = -x + 6$$

63. Let cost $x = 15,965$ and life: 12 years. Find D .

$$D = \left(\frac{1}{n}\right)x = \frac{1}{12}(15,965) = 1330.42$$

The depreciation is \$1330.42 per year.

64. Cost: \$41,762; life: 15 years

$$D = \left(\frac{1}{n}\right)x = \frac{1}{15}(41,762) = 2784.13$$

The depreciation is \$2784.13 per year.

65. Let cost $x = \$201,457$; life: 30 years

$$D = \left(\frac{1}{n}\right)x = \frac{1}{30}(201,457) = 6715.23$$

The depreciation is \$6715.23 per year.

66. Let x = the amount of the bonus. The manager received as a bonus $.10(165,000 - x)$, so $x = .10(165,000 - x)$.

Solve this equation.

$$x = 16,500 - .10x$$

$$1.10x = 16,500$$

$$x = \frac{16,500}{1.10} = 15,000$$

The bonus amounted to \$15,000, so the correct choice is (b).

67. a. $x = 5$

$$y = 13.69(5) + 133.6 = 202.05$$

There were about \$202.05 billion or \$202,050,000,000 in sales from drug prescriptions in 2005.

- b. $x = 10$.

$$y = 13.69(10) + 133.6 = 270.5$$

There were about \$270.5 billion or \$270,500,000,000 in sales from drug prescriptions in 2010.

- c. $y = 340$

$$340 = 13.69x + 133.6$$

$$206.4 = 13.69x$$

$$15.1 = x$$

Sales from drug prescriptions will be about \$340 billion in the year 2015.

68. a. $x = 10$

$$y = 40.89(10) + 405.3 = 814.2$$

The total revenue generated from hospital care in 2010 was about \$814.2 billion or \$814,200,000,000.

- b. $y = 1000$

$$1000 = 40.89x + 405.3 \Rightarrow$$

$$594.7 = 40.89x \Rightarrow x = 14.5$$

The total revenue generated from hospital care will be \$1 trillion in the year 2014.

Finite Mathematics 11th Edition Answers

Zhe Xu



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Finite Mathematics Carla C. Morris, Robert M. Stark, 2015-08-24 Features step by step examples based on actual data and connects fundamental mathematical modeling

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web the heat of reaction ΔH_{soln} is written after the products in units of kJ mol rxn for example sodium hydroxide dissolves exothermically releasing 44.2 kilojoules per mole dissolved this process is represented as $\text{NaOH (s)} \rightarrow \text{NaOH (aq)}$ $\Delta H_{\text{soln}} = -44.2 \text{ kJ}$

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