

CHAPTER 11 **Chapter Test** **Form C, continued**

8. Write the equation of the line that passes through the points $(-10, 6)$ and $(15, 1)$ in slope-intercept form.

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

9. Identify a point the line for $y + 7 = -\frac{3}{5}(x - 4)$ passes through and identify the slope of the line.

Possible answer: $(4, -7)$; $-\frac{3}{5}$

10. Write the point-slope form of the equation for a line with a slope of $-\frac{1}{71}$ that passes through the point $(-21, \frac{1}{2})$.

$$y - \frac{1}{2} = -\frac{1}{71}(x + 21)$$

Find each equation of direct variation, given that y varies directly with x .

11. y is -63 when x is 81

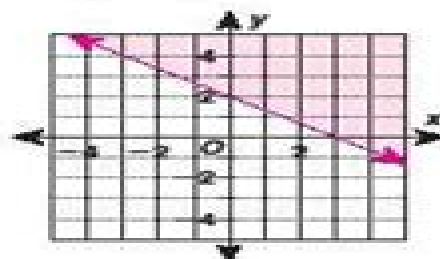
$$y = -\frac{7}{9}x$$

12. y is $\frac{3}{5}$ when x is $\frac{1}{2}$

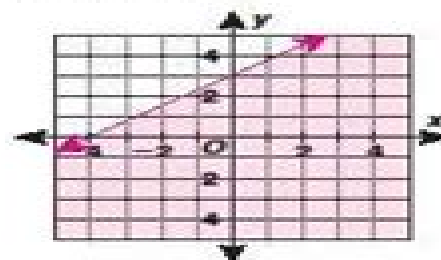
$$y = \frac{6}{5}x$$

Graph each inequality.

13. $\frac{1}{4}y > -\frac{1}{6}x + \frac{1}{2}$



14. $-3x + 4y \leq 12$



Use a line of best fit to answer the question.

15. The value of a car decreases as it is driven more miles. The data are shown below. Find a line of best fit for the data. Use the equation to predict the value of the car at 24,000 miles.

Miles	Value of Car
10,000	\$14,500
12,000	\$14,150
14,000	\$13,815
16,000	\$13,650
18,000	\$13,500

Possible answer: $y = -0.125x + 15,673$; about \$12,673

16. In order to rent an apartment, Vik makes an initial payment of \$1535, and each month he must pay \$750. The equation $y = 750x + 1535$ represents the amount of money Vik has paid after x months. After 2 years, how much rent money has Vik paid?

\$19,535

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 $2x_1 + 3x_2 + x_3 \leq 18$

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 y number of type b sheds produced each day
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 this method uses simple assumptions for optimizing the given function
 linear programming has a huge real world application and it is used to solve various types of problems

[linear programming exercises](#) - Sep 20 2023

linear programming exercises v kostoglou 17
 problem 9 an investor has the available profitable investment activities a and b
 for each year of the next five ones every dollar invested at the beginning of the one year in activity a becomes 1.40 two years later
 every dollar invested in the activity b for each year becomes 1.70 three years

tutorial and practice in linear programming arxiv org - Apr 15 2023

fundamentals and practice of linear programming the exercises demonstrate how to solve classical optimization problems
 with an emphasis on spatial analysis in supply chain management and transport logistics
 all exercises display the python programs and optimization libraries used to

linear programming model formulation and solution - Nov 10 2022

linear programming uses linear algebraic relationships to represent a firm's decisions given a business objective and resource constraints
 steps in application
 1 identify problem as solvable by linear programming
 2 formulate a mathematical model of the unstructured problem
 3 solve the model
 4 implementation introduction