

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

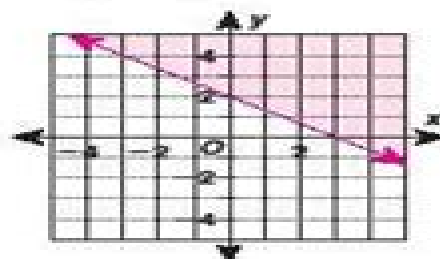
$$y = -\frac{7}{9}x$$

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

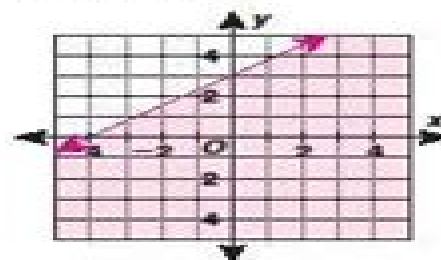
$$y = \frac{6}{5}x$$

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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web properties of matter fall into one of two categories if the property depends on the amount of matter present it is an extensive property the mass and volume of a substance are examples of extensive properties for instance a gallon of milk has a larger mass and volume than a cup of milk