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A **direct variation** is a relationship between two variables x and y that can be written in the form $y = kx$. In this relationship, k is the **constant of variation**. A direct variation equation is a linear equation in the form $y = mx + b$, where m and k is the slope. Because $b = 0$, the graph of a direct variation always passes through the **origin**.

Example 1: Writing and Graphing Direct Variation

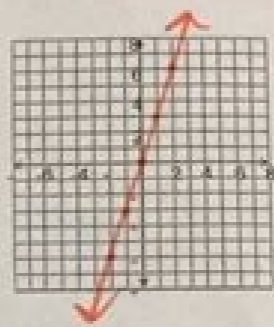
a) Given: y varies directly as x , and $y = 24$ when $x = 8$. Write and then graph the direct variation function.

$$y = kx$$

$$24 = k(8)$$

$$k = 3$$

$$y = 3x + 0$$



b. What is y when $x = 3.8$?

$$y = 3(3.8)$$

$$y = 11.4$$

Example 2: Solving Direct Variation Problems

The cost of an item in euros e varies directly as the cost of the item in dollars d , and $e = 3.85$ euros when $d = \$5.00$. Find d when $e = 10.00$ euros.

$$e = kd$$

$$\frac{3.85}{5.00} = \frac{k(5.00)}{5.00}$$

$$k = .77$$

$$e = .77d$$

$$\frac{10}{.77} = \frac{.77d}{.77}$$

$$d = 12.99$$

Example 3: Solving Joint Variation Problems

A joint variation is a relationship among three variables that can be written in the form $y = kxz$. For this equation we say y varies jointly as x and z .

The lateral surface area L of a cone varies jointly as the radius of the base r and the slant height l , and $L = 63\pi \text{ m}^2$ when $r = 3.5\text{m}$ and $l = 4\text{m}$. Find r to the nearest tenth when $L = 90\pi \text{ m}^2$ and $l = 8\text{m}$.

$$L = krl$$

$$63\pi = k(3.5)(4)$$

$$\frac{63\pi}{14} = \frac{k(14)}{14}$$

$$k = 4.5\pi$$

$$L = 4.5\pi rl$$

$$90\pi = 4.5\pi(r)(8)$$

$$90\pi = 36\pi r$$

$$\frac{90}{36} = \frac{36\pi r}{36}$$

$$r = 2.5$$

Algebra Concepts: Slope

Find the slope of each line. Write it in fraction form as $m = \frac{y}{x}$.

- | | |
|--|--|
| 1. | 2. |
| 3. passes through $(0, -2)$ and $(1, 1)$ | 4. passes through $(1, 2)$ and $(2, 2)$ |
| 5. $y = -\frac{1}{2}x - 4$ | 6. $y = 4x + 20$ |
| 7. $2y = 3x + 1$ | 8. $-4x + 2y = 12$ |
| 9. | 10. |
| 11. passes through $(0, 3)$ and $(1, 3)$ | 12. passes through $(1, 2)$ and $(2, 4)$ |
| 13. $y = 3$ | 14. $y = 2x$ |
| 15. $3x = 4y - 22$ | 16. $y + 2x = 2y + 15$ |

Converting Linear Equations (A)

Convert slope-intercept to standard forms.

- | | |
|---|--|
| 1. Slope-intercept form: $y = -\frac{11}{10}x - 1$ | 2. Slope-intercept form: $y = -2x - 9$ |
| Standard form: _____ | Standard form: _____ |
| 3. Slope-intercept form: $y = -\frac{1}{2}x - \frac{1}{2}$ | 4. Slope-intercept form: $y = \frac{1}{12}x + \frac{1}{4}$ |
| Standard form: _____ | Standard form: _____ |
| 5. Slope-intercept form: $y = -\frac{2}{3}x - \frac{17}{3}$ | 6. Slope-intercept form: $y = -\frac{1}{4}x - \frac{1}{2}$ |
| Standard form: _____ | Standard form: _____ |
| 7. Slope-intercept form: $y = -\frac{1}{2}x + \frac{1}{4}$ | 8. Slope-intercept form: $y = -\frac{5}{2}x - \frac{1}{2}$ |
| Standard form: _____ | Standard form: _____ |
| 9. Slope-intercept form: $y = -\frac{1}{2}x + 2$ | 10. Slope-intercept form: $y = -\frac{10}{3}x - \frac{2}{3}$ |
| Standard form: _____ | Standard form: _____ |

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