

Get Ready!

Lesson 1-3

Evaluating Algebraic Expressions

Evaluate each expression for the given values of the variables.

1. $9t + 6(2v - t) - 7v$; $t = 1$ and $v = 5$

2. $11(a + 2b) + 2(a - 2b)$; $a = -3$ and $b = 4$

3. $\frac{3}{5}d + \frac{1}{10}h - \frac{7}{10}d - \frac{4}{5}h$; $d = 5$ and $h = 10$

4. $12\left(\frac{3}{4}x - \frac{1}{2}y\right) - 6\left(\frac{1}{2}x - \frac{3}{4}y\right)$; $x = 2$ and $y = -2$

Lesson 2-3

Writing Linear Equations in Slope-Intercept Form

Write the equation of each line in slope-intercept form.

5. $2x - 4y = 10$

6. $3y + 9 = -6x$

7. $y - 5x = 16$

8. $-7 - y = -3x$

9. $\frac{x}{6} - \frac{5}{12}y = \frac{5}{8}$

10. $4x = y - 11$

11. $2y = -12x - 16$

12. $\frac{y}{9} + \frac{x}{3} = 2$

Lesson 2-3

Graphing Linear Equations

Graph each equation.

13. $3x = y - 1$

14. $x - 5y = 10$

15. $12 + 2y = 3x$

16. $y = 4x$

Lesson 2-8

Graphing Inequalities

Graph each inequality.

17. $4y \leq 24x$

18. $y \geq 2|x - 1.5|$

19. $x + 5y \geq 20$

20. $y > |x + 6| - 2$



Looking Ahead Vocabulary

21. A *system* of mountains is a group of mountains that share similar geographic and geological features. What are some mountain systems in the United States?
22. Two things are *consistent* if they are in agreement with each other. What does it mean for your actions to be consistent with your words?
23. How many books does Jeff own if he has more than 14 books? Describe the number of books that Jeff owns if you add the *constraint* that he owns fewer than his sister, who owns 19 books.