CHAPTER 4 CONTINUED

NAME _____ DATE _____

Chapter Test B

For use after Chapter 4

The variables x and y vary directly. Use the given values to write an equation that relates x and y.

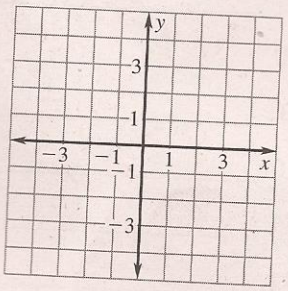
14. $x = -6, y = 42$

15. $x = \frac{1}{2}, y = 18$

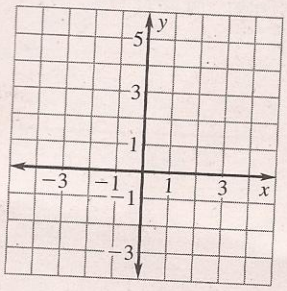
16. You rollerblade at an average speed of 8 miles per hour. The number of miles m you rollerblade during h hours is modeled by $m = 8h$. Do these two quantities have direct variation?

Write the equation in slope-intercept form. Then graph the equation.

17. $6x - 4y = 3$



18. $2y + 5x = 10$



Solve the equation algebraically.

19. $7 - 4x = 5 + 6x$

20. $\frac{3}{5}x + 4 = 10$

Decide whether the graphs of the two equations are parallel lines.

21. $y = 3x + 2, y = \frac{1}{3}x + 4$

22. $3y = 15x + 4, y = 5x + 1$

Evaluate the function when $x = 3$, $x = 0$, and $x = -2$.

23. $f(x) = -\frac{1}{2}x + 3$

24. $h(x) = 5.5x + 4$

25. $g(x) = \frac{1}{8}x - 4$

26. $k(x) = 14 - 4x$

27. Find the slope of the graph of the linear function f with $f(0) = 4$ and $f(3) = 13$.

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Review and Assess