

Name \_\_\_\_\_

**Find the point-slope form of the equation of the line satisfying the given conditions and use this to write the slope-intercept form of the equation.**

1) Slope = 8, passing through (3, 5)

2) Slope = -6, passing through (5, 5)

3) Slope = 3, passing through (-5, -9)

4) Slope =  $\frac{6}{5}$ , passing through (0, 4)

5) Slope =  $-\frac{2}{5}$ , passing through (0, 5)

6) Slope =  $\frac{3}{5}$ , passing through (10, -1)

7) Passing through (0, -4) and (1, -3)

8) Passing through (0, -2) and (3, -5)

9) Passing through (-2, 4) and (-3, 3)

10) Passing through (1, 3), (3, 1)

11) Passing through (0, 1) and (-3, -11)

12) Passing through (-1, 3) and (-5, -13)

13) Passing through (0, 1) and (2, -2)

14) Passing through (15, -19) and (5, -11)

15) x-intercept =  $-\frac{5}{2}$  and y-intercept = 3

16) x-intercept = 2 and y-intercept = 3

24) Parallel to the line  $9x + 4y = 46$ ; containing the point  $(6, -7)$ .

**Write an equation in slope-intercept form of the line satisfying the given conditions.**

17) Parallel to the line  $y = 4x$ ; containing the point  $(4, 2)$

25) Perpendicular to the line  $x - 5y = 5$ ; containing the point  $(-2, -3)$ .

18) Parallel to the line  $x + 4y = 8$ ; containing the point  $(0, 0)$

26) The line has a y-intercept at 9 and is parallel to the line containing  $(5, 24)$  and  $(8, 33)$ .

19) Parallel to the line  $3x - y = 2$ ; containing the point  $(0, 0)$

27) Perpendicular to the line  $y = 4x + 2$ ; containing the point  $(2, 2)$ .

20) Parallel to the line  $y = 2$ ; containing the point  $(1, 8)$

**Solve the problem.**

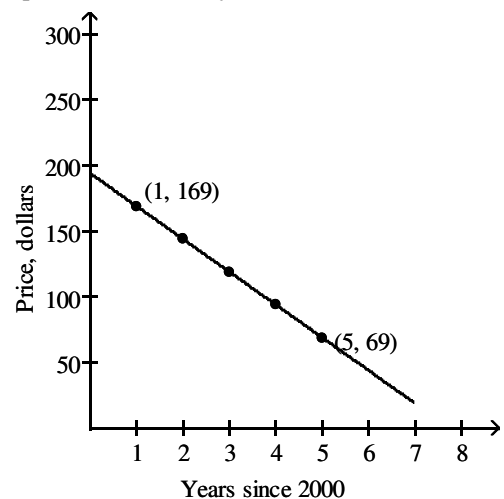
28) The graph below shows the average retail price of the least-expensive DVD player available at Mega Mart over the past few years. Use the two points whose coordinates are given to find the slope-intercept form of an equation that models the data.

21) Parallel to the line  $x = -2$ ; containing the point  $(7, 1)$

22) Parallel to the line  $y = -4x - 1$ ; containing the point  $(2, 6)$

23) Parallel to the line  $y = 3x - 6$ ; containing the point  $(3, 3)$ .

Average Retail Price of Least Expensive DVD Player



## Answer Key

Testname: 04.5V02

1)  $y = 8x - 19$

2)  $y = -6x + 35$

3)  $y = 3x + 6$

4)  $y = \frac{6}{5}x + 4$

5)  $y = -\frac{2}{5}x + 5$

6)  $y = \frac{3}{5}x - 7$

7)  $y = x - 4$

8)  $y = -x - 2$

9)  $y = x + 6$

10)  $y = -x + 4$

11)  $y = 4x + 1$

12)  $y = 4x + 7$

13)  $y = -\frac{3}{2}x + 1$

14)  $y = -\frac{4}{5}x - 7$

15)  $y = \frac{6}{5}x + 3$

16)  $y = -\frac{3}{2}x + 3$

17)  $y = 4x - 14$

18)  $y = -\frac{1}{4}x$

19)  $y = 3x$

20)  $y = 8$

21)  $x = 7$

22)  $y = -4x + 14$

23)  $y = 3x - 6$

24)  $y = -\frac{9}{4}x + \frac{13}{2}$

25)  $y = -5x - 13$

26)  $y = 3x + 9$

27)  $y = -\frac{1}{4}x + \frac{5}{2}$

28)  $y = -25x + 194$