Dressler
Name $\qquad$
8) Passing through $(0,-2)$ and $(-3,1)$

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 $=5$, passing through $(4,2)$
2) Slope $=-2$, passing through $(5,2)$
3) Slope $=3$, passing through $(-3,1)$
4) Slope $=\frac{5}{2}$, passing through $(0,6)$
5) Slope $=-\frac{5}{8}$, passing through $(0,2)$
6) Passing through $(0,-7)$ and $(8,-17)$
7) Passing through $(4,4)$ and $(2,-1)$
8) $x$-intercept $=\frac{5}{2}$ and $y$-intercept $=2$
9) Passing through $(0,-3)$ and $(-3,-6)$
10) $x$-intercept $=8$ and $y$-intercept $=4$

## Write an equation in slope-intercept form of the line

 satisfying the given conditions.17) Parallel to the line $y=3 x$; containing the point $(6,7)$
18) Parallel to the line $x+4 y=6$; containing the point (0, 0)
19) Parallel to the line $-5 x-y=2$; containing the point ( 0,0 )
20) Parallel to the line $y=8$; containing the point ( 5,9)
21) Parallel to the line $x=-3$; containing the point $(8,7)$
22) Parallel to the line $y=-4 x-1$; containing the point $(2,6)$
23) Parallel to the line $y=3 x-6$; containing the point $(6,7)$.
24) Parallel to the line $8 x+3 y=39$; containing the point $(3,3)$.
25) Perpendicular to the line $x-3 y=3$; containing the point $(4,-4)$.
26) The line has a y-intercept at 1 and is parallel to the line containing $(6,13)$ and $(9,19)$.
27) Perpendicular to the line $y=-2 x-4$; containing the point $(-4,-4)$.

## 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.

Average Retail Price of Least Expensive DVD Player


Answer Key
Testname: 04.5V01

1) $y=5 x-18$
2) $y=-2 x+12$
3) $y=3 x+10$
4) $y=\frac{5}{2} x+6$
5) $y=-\frac{5}{8} x+2$
6) $y=\frac{5}{4} x-6$
7) $y=x-3$
8) $y=-x-2$
9) $y=x+6$
10) $y=-x+3$
11) $y=-2 x+9$
12) $y=2 x-9$
13) $y=-\frac{5}{4} x-7$
14) $y=\frac{5}{2} x-6$
15) $y=-\frac{4}{5} x+2$
16) $y=-\frac{1}{2} x+4$
17) $y=3 x-11$
18) $y=-\frac{1}{4} x$
19) $y=-5 x$
20) $y=9$
21) $x=8$
22) $y=-4 x+14$
23) $y=3 x-11$
24) $y=-\frac{8}{3} x+11$
25) $y=-3 x+8$
26) $y=2 x+1$
27) $y=\frac{1}{2} x-2$
28) $y=-25 x+194$
