$\qquad$ Date $\qquad$ Class $\qquad$
California Standards 6.0*

## Lesson] Practice <br> 5-5 Slope-Intercept Form

Write the equation that describes each line in slope-intercept form

1. slope $=4 ; y$-intercept $=-3$
$y=$ $\qquad$
2. slope $=-2 ; y$-intercept $=0$
$y=$ $\qquad$
3. slope $=\frac{2}{5},(10,3)$ is on the line.

Find the $y$-intercept: $y=m x+b$

$$
\begin{aligned}
& Z_{\square}=(\ldots)+b \\
& = \\
& +b \\
& \text {-__ } \\
& =b
\end{aligned}
$$

Write the equation: $y=$ $\qquad$
Write each equation in slope-intercept form. Then graph the line described by the equation.
5. $y+x=3$
6. $y+4=\frac{4}{3} x$
7. $5 x-2 y=10$



8. Daniel works as a volunteer in a homeless shelter. So far, he has worked 22 hours, and he plans to continue working 3 hours per week. His hours worked as a function of time is shown in the graph.
a. Write an equation that represents the hours Daniel will work as a function of time.
b. Identify the slope and $y$-intercept and describe their meanings. $\qquad$
$\qquad$
c. Find the number of hours worked after 16 weeks.



