Show all steps on your own sheet of paper.

Slope-Intercept Form

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

1. slope = 4; y-intercept = -3
 $y = _$ 4. slope = $\frac{2}{5}$, (10, 3) is on the line.2. slope = -2; y-intercept = 0
 $y = _$ Find the y-intercept y = mx + b
 $_ = (_)_ + b$
 $_ = b$
Write the equation: $y = _$

Write each equation in slope-intercept form. Then graph the line described by the equation.



- 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.
 - Identify the slope and *y*-intercept and describe their meanings.
 - c. Find the number of hours worked after 16 weeks.

