

# Lesson 4 Homework Practice

## Slope-Intercept Form

State the slope and the y-intercept for the graph of each equation.

1.  $y = 4x + 1$

2.  $y = -3x + 5$

3.  $-x + y = 4$

4.  $y = \frac{5}{6}x - 3$

5.  $y + 3x = -7$

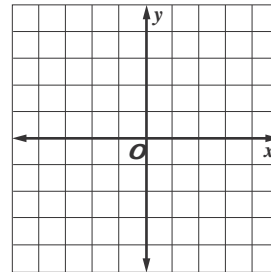
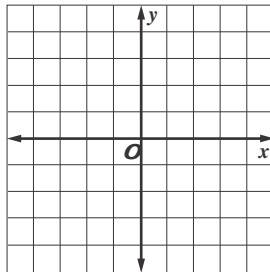
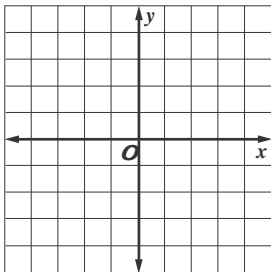
6.  $y = \frac{1}{5}x + 2$

Graph each equation using the slope and the y-intercept.

7.  $y = -2x + 2$

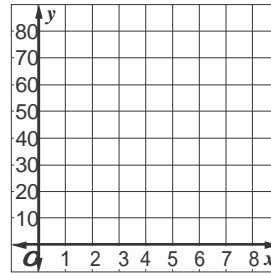
8.  $y + x = -3$

9.  $1 = y - \frac{2}{3}x$

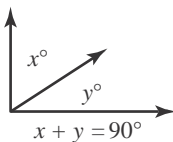


10. **CAMPING** The entrance fee to the national park is \$15. A campsite fee is \$15 per night. The total cost  $y$  for a camping trip for  $x$  nights can be represented by the equation  $y = 15x + 15$ .

- Graph the equation.
- Use the graph to find the total cost for 4 nights.
- Interpret the slope and the y-intercept.



11. **GEOMETRY** Use the diagram shown.



- Write the equation in slope-intercept form.
- Graph the equation.
- Use the graph to find the value of  $y$  if  $x = 30$ .

