

**LESSON**  
**6-1****Slope-Intercept Form****Practice and Problem Solving: A/B**

Write the equation for each line in slope-intercept form. Then identify the slope and the y-intercept.

1.  $4x + y = 7$

Equation: \_\_\_\_\_

Slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

2.  $2x - 3y = 9$

Equation: \_\_\_\_\_

Slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

3.  $5x + 1 = 4y + 7$

Equation: \_\_\_\_\_

Slope: \_\_\_\_\_

y-intercept: \_\_\_\_\_

4.  $3x + 2y = 2x + 8$

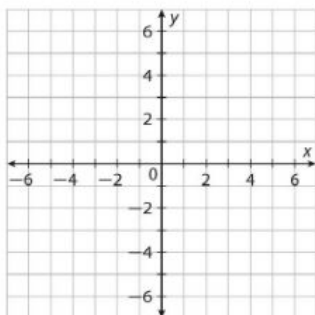
Equation: \_\_\_\_\_

Slope: \_\_\_\_\_

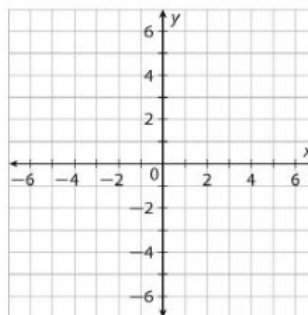
y-intercept: \_\_\_\_\_

Graph the line described by each equation.

5.  $y = -3x + 4$



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



**Solve.**

7. What are the slope and y-intercept of  $y = 3x - 5$ ?

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8. A line has a y-intercept of  $-11$  and slope of  $0.25$ . Write its equation in slope-intercept form.

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9. A tank can hold 30,000 gallons of water. If 500 gallons of water are used each day, write the equation that represents the amount of water in the tank  $x$  days after it is full.