

# MasterMath

Name \_\_\_\_\_

## More on Slope-Intercept Form

Date \_\_\_\_\_

1. Find the equation in Slope-Intercept Form for a line that includes these points: (6, 4) and (0, 2).

$$y = \frac{1}{3}x + 2$$

2. Find the equation in Slope-Intercept Form for a line that includes these points: (-2, -8) and (0, -5).

$$y = 1\frac{1}{2}x - 5$$

3. Find the equation in Slope-Intercept Form for a line that includes these points: (-15, 8) and (0, 188).

$$y = 12x + 188$$

4. A line has a slope of 5 and includes the point (3, 9). What is the equation for this relationship?

$$y = 5x - 6$$

5. A line has a slope of -6 and includes the point (-2, 8). What is the equation for this relationship?

$$y = -6x - 4$$

6. A linear function  $f$  includes these values:  $f(5) = 10$ ;  $f(0) = -10$ . Write an equation for this function.

$$y = 4x - 10$$

6. A linear function  $f$  includes these values:  $f(-3) = -6$ ;  $f(0) = 9$ . Write an equation for this function.

$$y = 5x + 9$$

7. The cost of shipping a package to Bangkok, Thailand is \$20 plus an additional charge for each ounce that the package weighs. It costs you \$53 to send your 11 oz. package to Bangkok. What is the charge per ounce?

$$\$3.00$$



8. Suppose that the water level of a river was 34 feet and that it was receding at a rate of 0.5 foot per day. After a certain number of days, the water level had dropped to 26 feet. How many days had past when the water level dropped to 26 feet? Show the equation in Slope-Intercept Form that describes this relationship.

Days	Equation
16	$y = -.5x + 34$
	$y = 34 - .5x$

9. Write an equation in slope-intercept form for a line that passes through (0,11) and has the same slope as the line whose equation is  $9x + 3y = 27$ .

$$y = -3x + 11$$

10. A canoe rental service charges a transportation fee and \$30 dollars an hour to rent a canoe. Your 6 hour canoe rental costs \$200. Write an equation in Slope-Intercept Form that describes the pricing policy. Determine what the Transportation Fee is.

Transportation Fee	Equation
20	$y = 30x + 20$