

Name \_\_\_\_\_

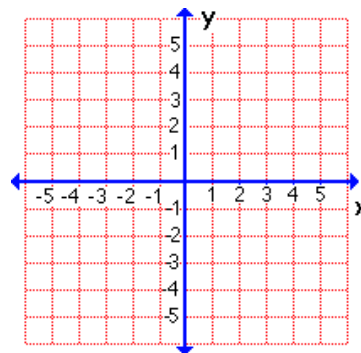
Date \_\_\_\_\_ Pd. \_\_\_\_\_

**Notes: Slope-Intercept Form Day 1**

Slope-Intercept Form

**Example 1** Write an equation of the line whose slope is  $-4$  and whose  $y$ -intercept is  $3$ .

**Example 2** Graph  $3x - 4y = 8$ .



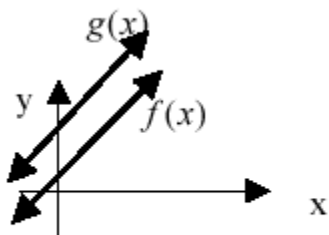
The  $y$ -intercept of  $y = \frac{3}{4}x - 2$  is \_\_\_ and the slope is \_\_. So graph the point \_\_\_\_\_. From this point, move up \_\_\_ units and right \_\_\_ units. Draw a line passing through both points.

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**Exit Card: Slope-Intercept Form Day 1**

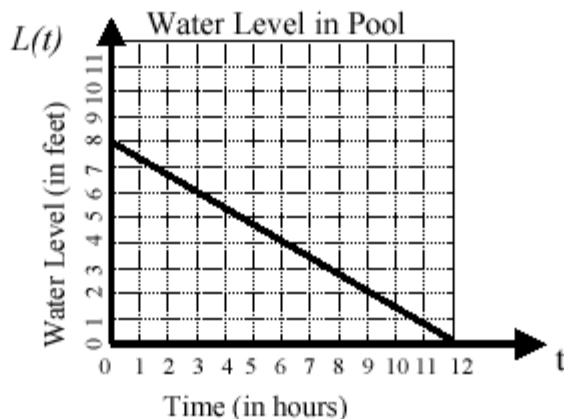
Look at the graphs of  $f(x)$  and  $g(x)$  below.  $f(x) = 2x + 1$



Which of the following is a possible equation for  $g(x)$ ?

- A.  $g(x) = 2x$     B.  $g(x) = 3x + 1$     C.  $g(x) = 2x + 3$     D.  $g(x) = -2x + 1$

The water in a swimming pool is 8 feet deep. The water in the pool is drained at a constant rate until the pool is empty. The graph below shows the water level  $L(t)$  in the tank as a function of time ( $t$ ).



Which of these functions represents the relationship between the time and water level?

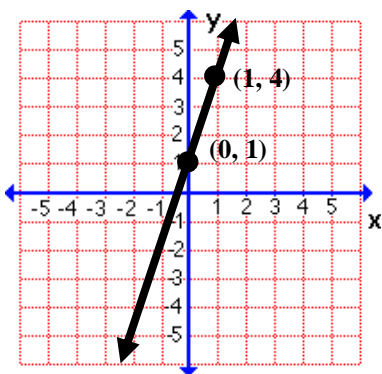
- A.  $L(t) = \frac{2}{3}t + 8$                       B.  $L(t) = \frac{2}{3}t - 8$   
 C.  $L(t) = -\frac{2}{3}t + 8$                       D.  $L(t) = -\frac{2}{3}t - 8$

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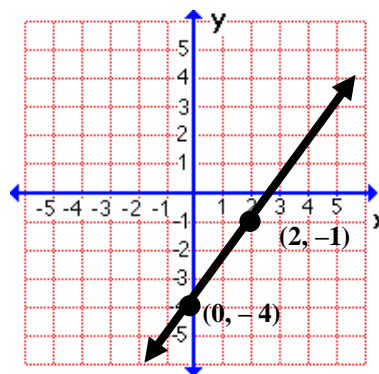
Date \_\_\_\_\_ Pd. \_\_\_\_\_

**Homework: Page 275 (14 – 16, 19 – 22)**14. Write an equation of the line with slope 2 and y-intercept  $-6$ .15. Write an equation of the line with slope 3 and y-intercept  $-5$ .16. Write an equation of the line with slope  $\frac{1}{2}$  and y-intercept 3.19. Write an equation of the line with slope 0.5 and y-intercept  $-7.5$ .

20. Write an equation of the line.



21. Write an equation of the line.



22. Write an equation of the line.

