1. Without graphing, tell whether the lines \( y = \frac{2}{3}x + 1 \) and \( y = -\frac{3}{2}x + 1 \) are parallel, perpendicular, or neither.

Identify the slope and \( y \)-intercept of the line with the given equation.

2. \( y = -5x \)  
3. \( y = 2x + 1 \)
4. \( y = -4x - 2 \)
5. \( x + y = 5 \)
6. \( 2x + 3y = 6 \)
7. \( 4x - 2y = 8 \)

Match the equation with its graph.

8. \( y = 2x + 1 \)  
9. \( y = x + 2 \)  
10. \( y = x - 2 \)

Identify the slope and \( y \)-intercept of the line with the given equation. Use the slope and \( y \)-intercept to graph the equation.

11. \( y = 3x + 2 \)  
12. \( y = -\frac{1}{2}x + 3 \)
13. \( y - 2x = 12 \)  
14. \( 2y - 4x = 12 \)

For the line with the given equation, find the slope of a parallel line and the slope of a perpendicular line.

15. \( y = 6x - 3 \)  
16. \( y = \frac{3}{4}x + 4 \)
17. \( y - x = 4 \)  
18. \( y + 3x = 7 \)

19. You fill an aquarium with water. The water is 22 inches deep. The water evaporates at a rate of 2 inches per week.
   a. Write an equation that approximates the depth \( y \) of water in the aquarium \( x \) weeks after you fill it.
   b. After two weeks, you have not yet refilled the aquarium. What is the depth of the water?