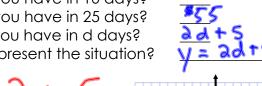
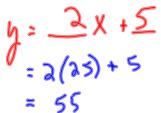
## **Algebra Equations of Lines Day 2**

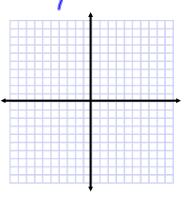
## Warm up

- 1. You have \$5 and you earn \$2 everyday.
- a. How much money will you have in 10 days?
- b. How much money will you have in 25 days?
- c. How much money will you have in d days?
- d. Write an equation to represent the situation?





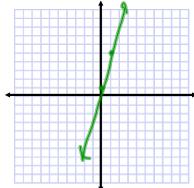




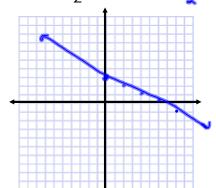
## Examples

For numbers 1-4, graph each line with the given equation.

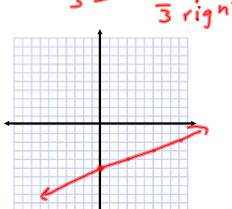
1. 
$$y = 4x + 1$$
  $\frac{4}{l} v p^{4}$ 

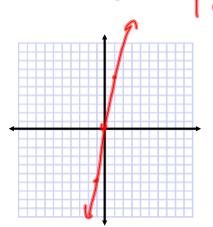


2. 
$$y = -\frac{1}{2}x + 3$$
  $\frac{-1}{3} \frac{down}{right^2}$ 





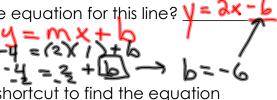


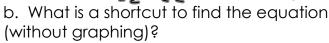


5. Graph the line with a slope of 2, that goes 🚬 🏰 through the point (1, -4).

Steps: Plot the point first. Then use the stope to find the next point.

a. What is the equation for this line?  $\sqrt{= 2 \times 160}$ 





Ser above

- - & Y-intercept

6. Find the equation for the line with a slope of 3, through the point (-2, 5).

7. Find the equation for the line with a slope of 2/5, through the point (10, -1).

8. Find the equation for the line that goes through the origin, and has a slope of -4/3.

Assign Equations Day 3 Wikst

1. 
$$(5,10) = 4(-2,13)$$
  
 $x_1 y_1$   $x_2 y_2$   
 $m = \frac{y_3 - y_1}{x_2 - x_1} = \frac{13 - 10}{-3 - 5} = \frac{3}{7}$   
 $y = x_1 + b$   
 $y = x_2 + b$   
 $y = 3(1) + b$