Name
$\qquad$
$\qquad$ Period $\qquad$

## Write the slope-intercept form of the equation of each line.

1) 


2)


Write the slope-intercept form of the equation of the line through the given point with the given slope.
3) through: $(-1,-4)$, slope $=6$

Write the slope-intercept form of the equation of the line through the given points.
4) through: $(3,2)$ and $(-5,1)$

Write the slope-intercept form of the equation of the line described.
5) through: $(-4,-3)$, parallel to $y=\frac{1}{4} x+4$
6) through: $(3,3)$, perp. to $y=-\frac{3}{5} x+5$
7) The cost of hiring a plumber, $C$, is a function of the time spent on the job, ' $t$ ', in hours. If the plumber charges a fee of $\$ 20$ plus $\$ 29$ per hour.

What is the equation that models this situation?
8) A customer bought 5 hamburgers and 7 drinks and paid a total of $\$ 37.50$

What is the equation that models this situation?
9) Convert the following $x-y$ pairs into "function notation".
$(2,3),(0,5)$

## Solve each equation. Show your work.

10) $x+4-4 x=-20$

## Solve each equation ("one-step-rewrite")

11) $84=-6(4+3 x)$
12) The perimeter of a rectangal is given by the following formula:
$P=2 W+2 L$
Solve for W
13) The area of a trapezoid is 255 square feet.

If one base is 9 feet and other base is twice as long, what is the height?
17) What property is shown below?
$5 \div 5=1$
12) The perimeter of a rectangle is 45 feet. The length is 12 feet. What is the width?
14) The area of a trapezoid is given by the following formula. Solve for $b_{1}$ :
$A=\frac{1}{2} h\left(b_{1}+b_{2}\right)$
16) The area of a trapezoid is 300 square feet. If the height is 12 feet and one base is 14 feet, what is the other base?
18) What property is shown below?

$$
3+(-3)=0
$$

19) What property is shown below?
$\frac{3}{3} * \frac{2}{5} \rightarrow \frac{6}{15}$
