

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



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?

 Convert the following x-y pairs into "function notation".

(2, 3), (0, 5)

Solve each equation. Show your work.

10) x + 4 - 4x = -20

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

- 11) 84 = -6(4 + 3x)
- 13) The perimeter of a rectangal is given by the following formula: P = 2W + 2L

Solve for W

- 15) 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?
 - $5 \div 5 = 1$
- 19) What property is shown below?
 - $\frac{3}{3} * \frac{2}{5} \rightarrow \frac{6}{15}$

- 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 :

$$A = \frac{1}{2}h(b_1 + b_2)$$

- 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

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