

5-4 Writing Equations in Slope-Intercept Form

Alg 1

Example: Write an Equation of a Line Given Slope and One Point

What are the 2 things you NEED in order to write an equation in S-I Form????

1.

2.

****You can check your work using your Graphing Calculator ****

Write an equation of a line that passes through (2, -3) with a slope of $\frac{1}{2}$

Write an equation of a line that passes through (1, 5) with a slope of 2

Write an equation of a line that passes through (5, 4) with a slope of 0

Write an equation of a line that passes through (2, -3) with a slope that is undefined

Example: Write an Equation of a Line Given Two Points

The table of ordered pairs shows the coordinates of 2 points on the graph of a function. Which equation describes the function?

x	y
-3	-4
-2	-8

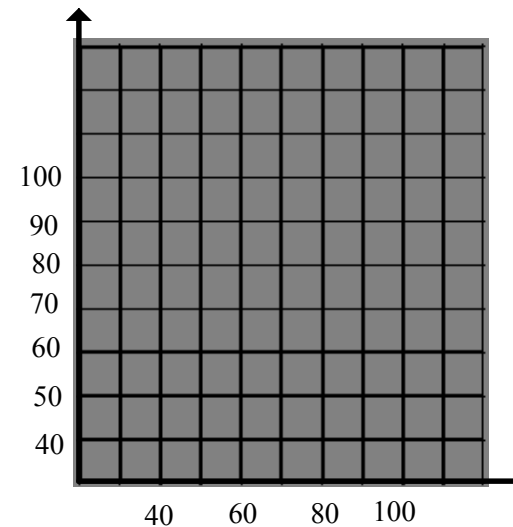
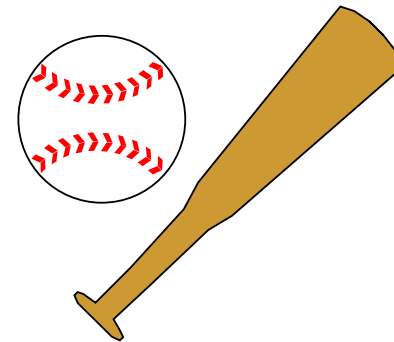
- A. $5y = 12x - 16$
- B. $y = 4x - 16$
- C. $y = -4x + 16$
- D. $y = -4x - 16$

Write an equation to solve a problem

In the middle of the 1998 baseball season, Mark McGwire seemed to be on track to break the record for most runs batted in. After 40 games, McGwire had 45 RBI's. After 86 games, he had 87 RBI's. Write a linear equation to estimate the number of RBI's for any number of games that season.

Let $x =$

Let $y =$



In 2000, the cost of many items increased because of the increase in the cost of petroleum. In Chicago, a gallon of self-serve regular gasoline cost \$1.76 in May and \$2.13 in June.

Write a linear equation to predict the cost of gasoline in any month in 2000, using 1 to represent January.

Let x =

Let y =