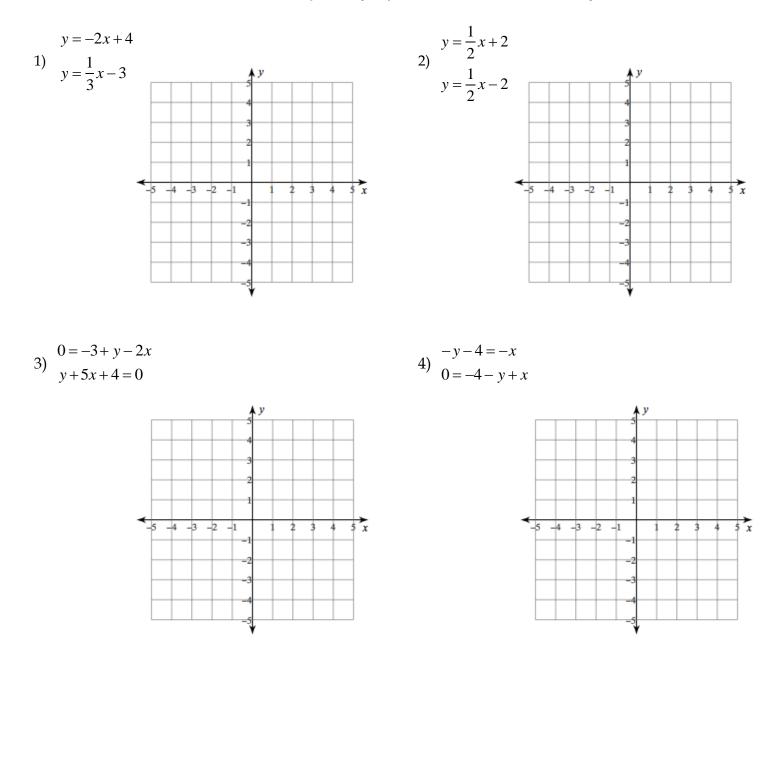
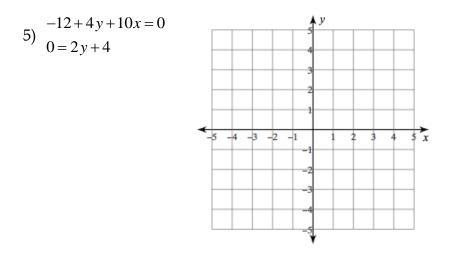
Solve by Graphing

Solve each system of linear equations by graphing. Write the equations in slope-intercept form. If system has a solution, then name at least one ordered pair (x, y). If there is no solution, state why.





Break-Even Points

In the business world, the "break-even point" is the point at which income equals expenses. Solve a system of equations to find the "break-even point" for a business.

6) Suppose a club publishes a newsletter. Expenses are \$.50 for printing and mailing each copy, plus \$300 total for research and writing. The price of the newsletter is \$2.00 per copy. How many copies of the newletter must the club sell to break-even?

Define the variables:

x =			
<i>y</i> =			

Write an equation representing the expense/cost of publishing the newsletter:

Write an equation representing the money earned/income from selling the newsletter:	

Set the two equations equal to each other to find the "break-even point".

7) Suppose another club publishes a newsletter. Expenses are \$.80 for printing and mailing each copy, plus \$120 total for research and writing. The newsletter costs \$1 per copy. How many copies of the newsletter must the club sell to break-even?

Define the variables:

x = ______ y = _____

Write an equation representing the expense/cost of publishing the newsletter:

Write an equation representing the money earned/income from selling the newsletter:

Set the two equations equal to each other to find the "break-even point".