

1. Writing real-world scenarios and defining variables

A. Frank's Farm charges \$5 for admission to their apple orchard and \$0.89 for each pound of apples purchased. Write an equation that represents the cost of getting apples at the apple orchard. Be sure to specify what the variables represent.

B. T-shirts cost \$15. Each letter of personalization costs \$1.25, and each number costs \$2.50. Write an equation that represents the cost of a t-shirt. Be sure to specify what the variables represent.

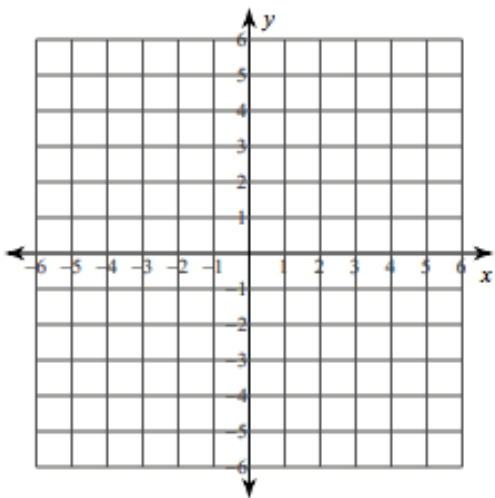
2. Solve each equation:

A. $\frac{3}{2}x + 7x - 7 = 3(2x + 1)$

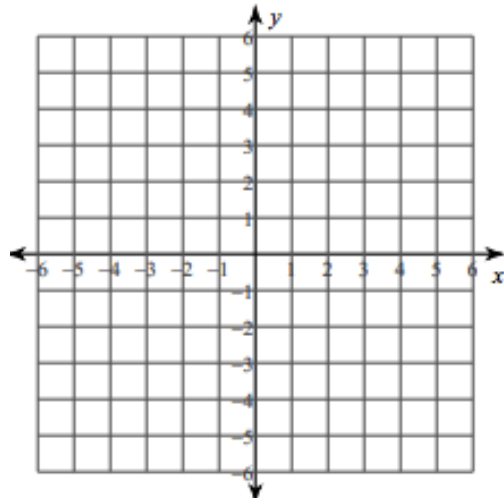
B. $5 - 2(x + 6) = 3x + 2$

3. Find the intercepts, then use the intercepts to graph the equation.

A. $2x + y = 4$

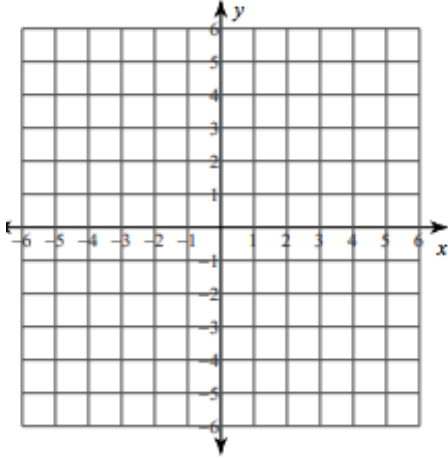


B. $3x + 4y = -12$

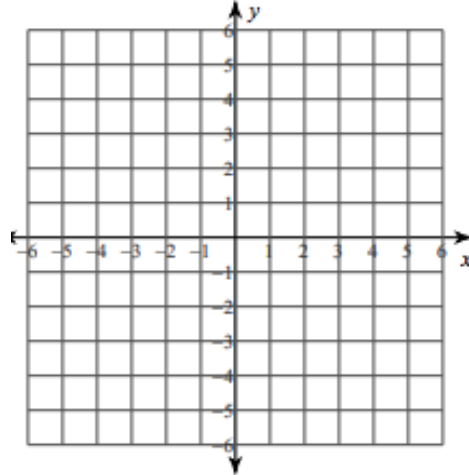


4. Graphing using slope-intercept form

A. $y - 3 = 4x$



B. $2y + 6x = -6$



5. Solve for the indicated variable. Work should be completed on other paper.

A. Solve for r

$$C = 2\pi r$$

B. Solve for y

$$3x - 7y = -30$$

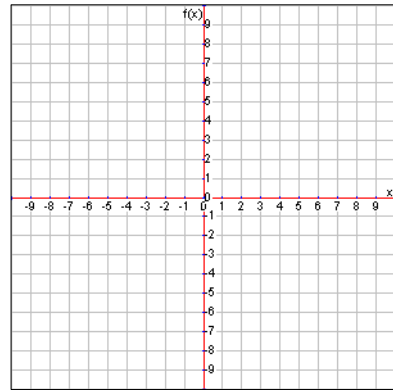
C. Solve for C

$$F = \frac{9}{5}C + 32$$

6. Solve each system using graphing:

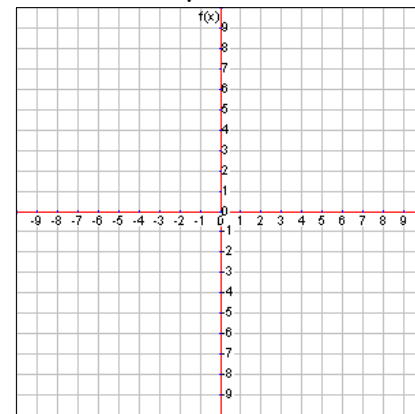
A. $y = 3x - 2$

$$y = -\frac{1}{2}x + 5$$



B. $2y = 4x - 8$

$$-x + 3y = 9$$



6. Solve each system using substitution. Work should be completed on other paper.

A. $x + y = 7$

$$2x + y = 5$$

B. $x + 2y = 7$

$$2x - 8y = 8$$

7. Solve each system using elimination. Work should be completed on other paper.

A. $x + y = 1$

$$x - y = 5$$

B. $4x + y = -9$

$$4x + 2y = -10$$

C. $3x + y = 2$

$$6x + 3y = 5$$

D. $4x + 3y = 19$

$$3x - 4y = 8$$

