

ALGEBRA II
Chapter 3 section 1
Solve Linear Systems by Graphing
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FOCUS:

How do you solve a system of linear equations graphically?

VOCAB:

System of two linear equations: _____

Solution of a system: _____

Consistent: _____

Inconsistent: _____

Independent: _____

Dependent: _____

WARM – UP:

1. Evaluate $5x + 2y$ for $x = 2$ and $y = -4$ _____

2. Find the slope - intercept form of the equation $-3x + 4y = 12$ _____

3. Find the x - intercept of the graph of $y = |x + 1|$. _____

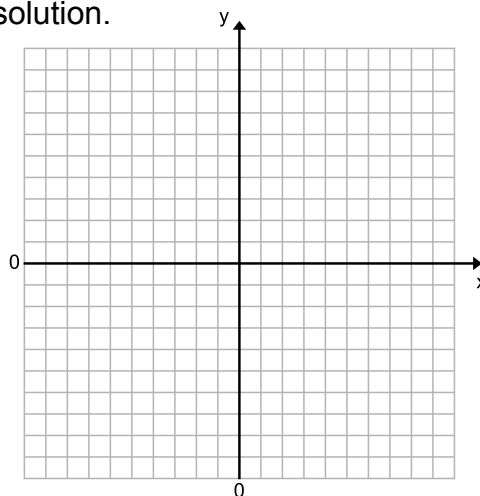
4. Express the cost C of x ball game tickets at a price of \$18 per ticket. _____

NOTES:

Graph the linear system. Check the solution.

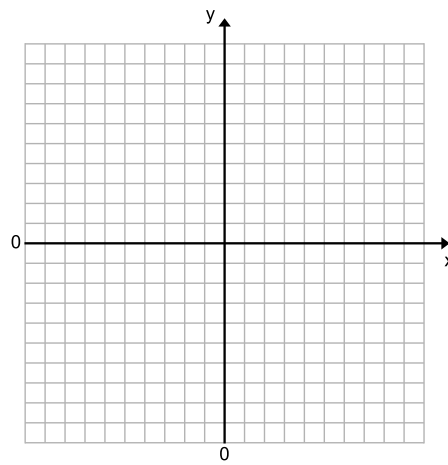
$$5x - 2y = -10$$

$$2x - 4y = 12$$



$$3x + 2y = -4$$

$$x + 3y = 1$$



Solve the system. Then classify the system as consistent and independent, consistent and dependent, or inconsistent.

$$6x - 2y = 8$$

$$3x - y = 4$$

$$-4x + y = 5$$

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

$$-2x + y = 5$$

$$y = -x + 2$$

A soccer league offers two options for membership plans. Option A includes an initial fee of \$40 and costs \$5 for each game played. Option B costs \$10 for each game played. After how many games will the total cost of the two options be the same?

Let's see if you comprehended what we worked on in class...

Try _____ for homework