Systems of Equations - Lessons 13-3

Today we began with the following review problem for our warmup...you should be able to do this in your sleep by now!

Graph each equation on the same set of axes:

$y - x = 4$

$y + x = 10$

What are the coordinates of the point of intersection?

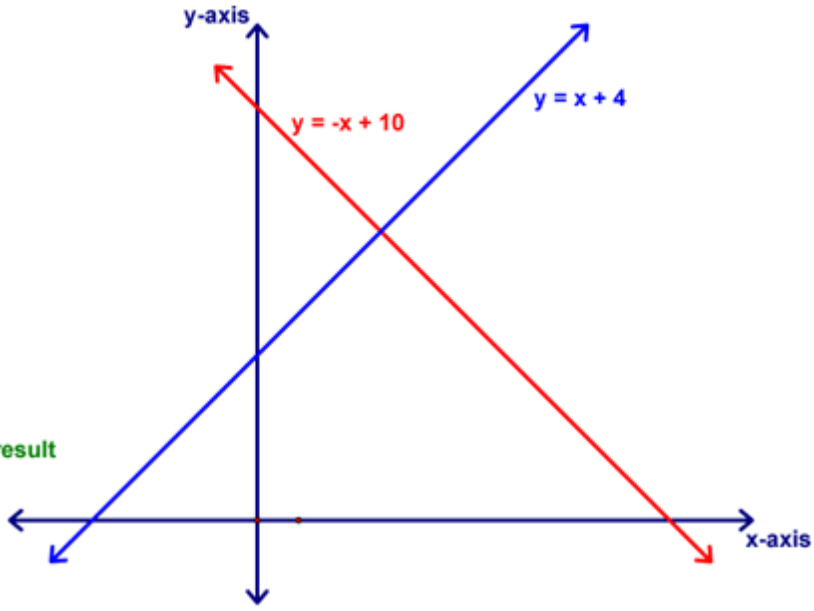
$x + 4 = -x + 10$

$\Rightarrow 2x = 6$

$\Rightarrow x = 3, y = 7$

Replace x with 3 and y with 7 in each equation. What does the result indicate?

The point (3, 7) is on both graphs!



Next, we discussed the ways to solve a system of equations...again, this should be review for you...

Methods for solving systems of equations:

1. Graphing
2. Addition-subtraction of the equations
3. Substitution