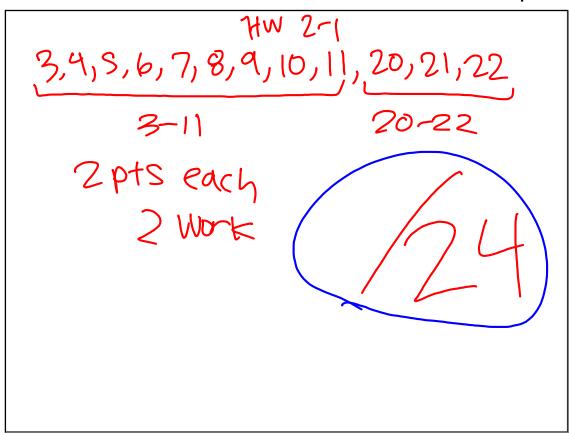
$$4. -3 \le \frac{2}{3} r \cdot 9$$
 $3. -12 \le \frac{2}{3} \times \frac$

$$\begin{array}{c} \textcircled{3} \\ -3 \\ +4 \\ +3 \\ \end{matrix}$$

$$\begin{array}{c} +4 \\ +3 \\ \hline \\ & +3 \\ \end{matrix}$$

$$\begin{array}{c} +4 \\ +8 \\ -8 \\ \hline \\ & +8 \\ \hline \\ & +2 \\ \hline \\$$



2-2: Systems of Equations

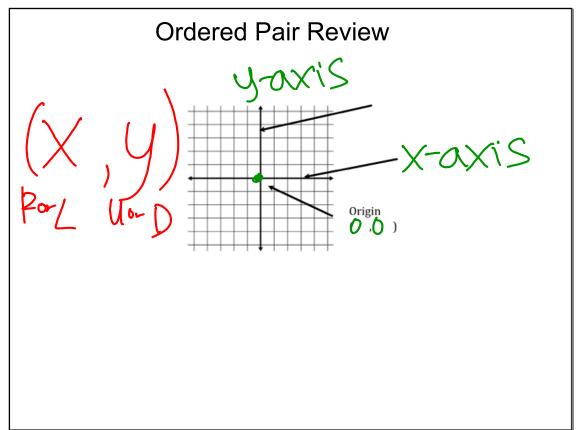
Objectives: I can identify how many solutions a system has by looking at a graph

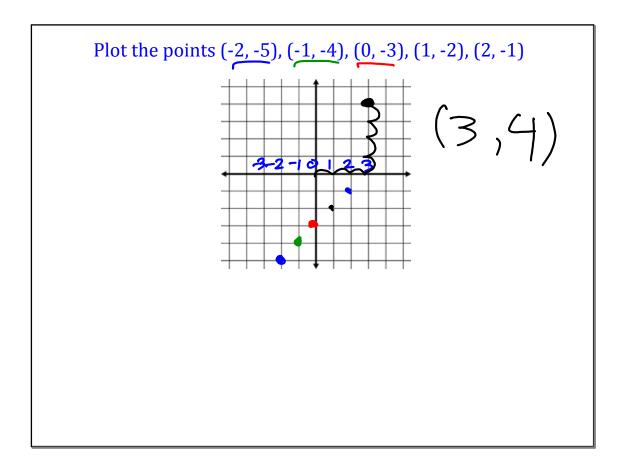
I can use a graph calculator to graph equations

I can verify a solution to a system algebraically and graphically

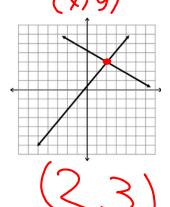
Vocab: System of equations, ordered pair, no solution, infinitely many solutions

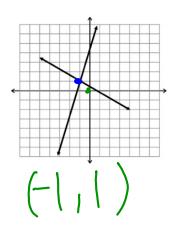
y=-X-5

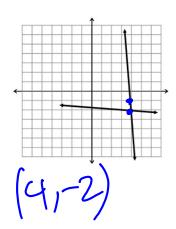




Identify the ordered pair where the two lines intersect (x, y)

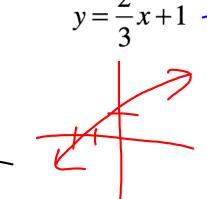


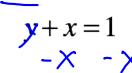




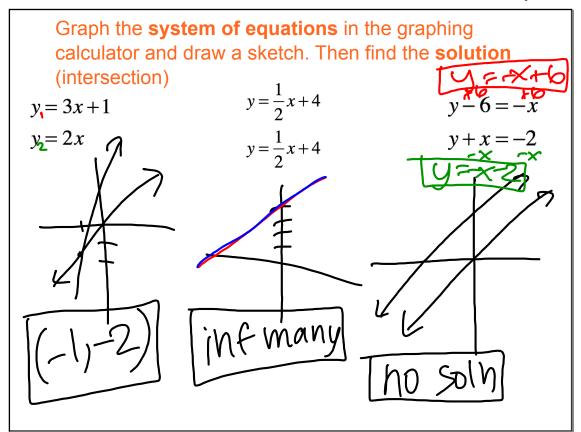
Calculator Activity: For the following examples, graph in your calculator then draw a sketch

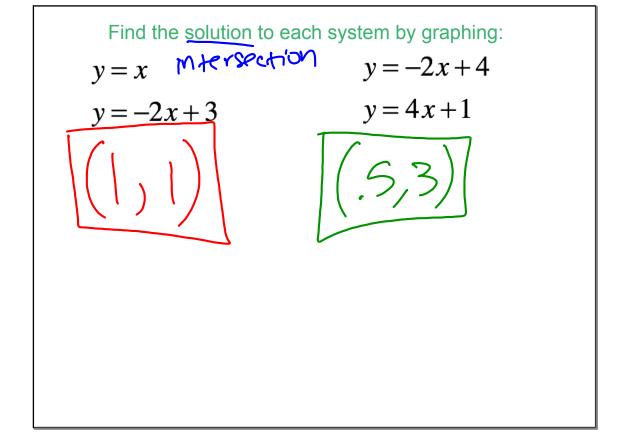
$$y = 3x + 4$$





y=1-x y=-x+1





Verifying Solutions: Graphically

$$y = \frac{1}{3}x - 3$$
 $y = -1$ $y = 3x - 4$ $y = -\frac{5}{2}x + 4$ $y = -\frac{1}{2}x + 3$ $y = -\frac{1}{2}x + 3$

$$y = -1$$
$$y = -\frac{5}{2}x + 4$$

$$y = 3x - 4$$
$$y = -\frac{1}{2}x + 3$$

(0,-4)

Verifying Solutions: Algebraically

$$y=4x+3$$
 $-|=4(-1)+3$
 $y=-x-2$
 $(-1,-1)$
 X Y $-|=-|$



Verifying Solutions: Algebraically

$$y = x$$
$$y = -x$$
$$(2,2)$$

10,10,11 Calculator