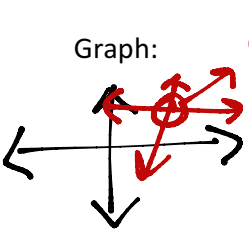
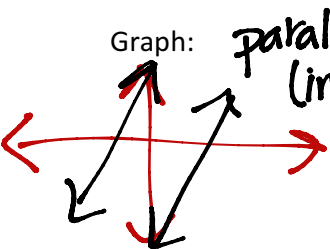
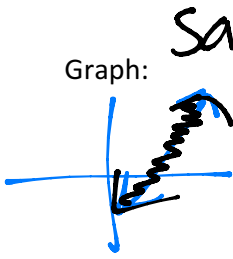


Homework - name on it and turn in the basket!

Solutions to Systems of Linear Equations

One Solution	No Solution	Infinitely Many Solutions
<p>Example: $-2x - 9y = -25$ $-4x - 9y = -23$</p> <p>Graph:  <i>one solution</i></p> <p>Substitute: $(2, 3)$ $X=2$ <i>plug in and solve for y</i></p> <p>Eliminate: Pick letter to eliminate - solve for other $X=2$ Plug in # & solve for y $(2, 5)$</p>	<p>Example: $-3x + 3y = 4$ $-x + y = 3$</p> <p>Graph:  <i>parallel lines</i></p> <p>Substitute: $7 = 42$ $Z = 1$ <i>Variables gone</i></p> <p>Eliminate: $3x$ $-3y$ $= 10$ $-x$ $+y$ $= -3$ $0 = 7$</p>	<p>Example: $2x + 8y = 6$ $-5x - 20y = -15$</p> <p>Graph:  <i>same line</i></p> <p>Substitute: $0 = 0$ All variables $1 = 1$ and #'s go away</p> <p>Eliminate: $2x$ $+8y$ $= 6$ $-5x$ $-20y$ $= -15$ $0 = 0$</p>