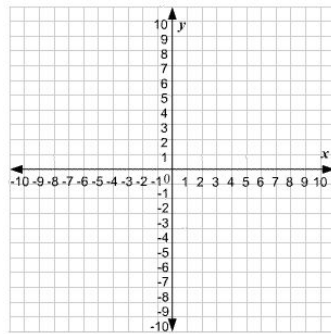
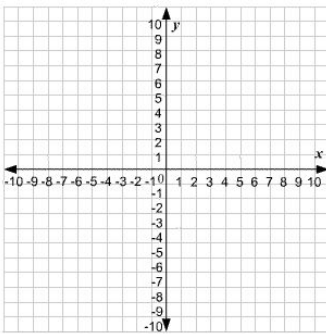
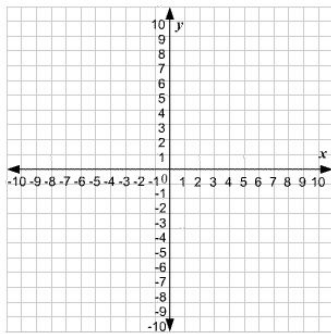


Unit 4: Systems of equations

(Chapter 4, page 158)

<input type="checkbox"/>	Systems of equations in two variables	
<input type="checkbox"/>	Solving Systems of equations in two variables by: <ol style="list-style-type: none"> 1. Graphing 2. Substitution 3. Elimination (What is the difference between substitution and elimination?)	
<input type="checkbox"/>	Graphing Possible scenarios ---- Intersecting lines: Unique solution ---- Parallel lines: _____ ---- Same line: _____ ---- Examples: (give equations, and plot in the graphs).	Page 160



<input type="checkbox"/>	<p>Substitution method</p> $\begin{cases} 2y + x = 1 \\ 3y - 2x = 12 \end{cases}$	Page 162
<input type="checkbox"/>	<p>Elimination (aka linear combination)</p> $\begin{cases} 3x - 4y = -1 \\ -3x + 2y = 0 \end{cases}$	Page 163
<input type="checkbox"/>	<p>Cramer's rule (we proved in class for the two-variable case)</p> $\begin{cases} ax + by = c \\ dx + ey = f \end{cases}$ <p>Solution:</p> $x = \frac{ce - bf}{ae - bd}$ $y = \frac{af - cd}{ae - bd}$ <p>----- Example:</p> $\begin{cases} 5x - 2y = 10 \\ -8x + 0.4y = 40 \end{cases}$	Page 166

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<input type="checkbox"/>	Word problems	Page 169 + HW
<input type="checkbox"/>	Mixtures	
<input type="checkbox"/>	Digits/Numbers	
<input type="checkbox"/>	Distance	
<input type="checkbox"/>	Covered briefly: -- System of 3 (three) equations -- System of inequalities	

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