
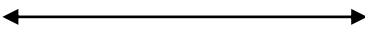
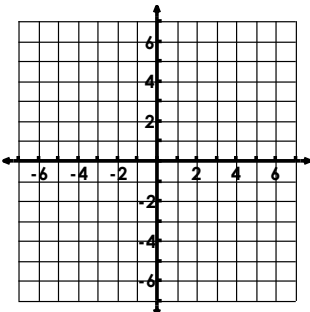
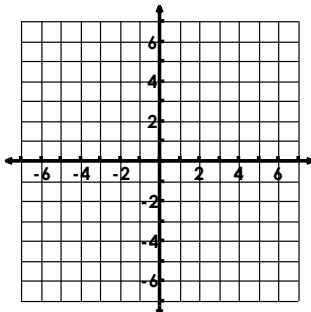
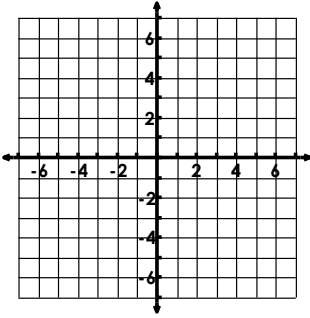
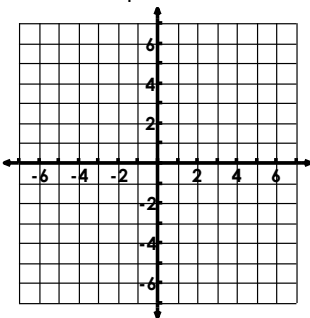
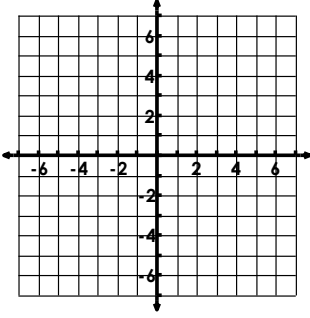
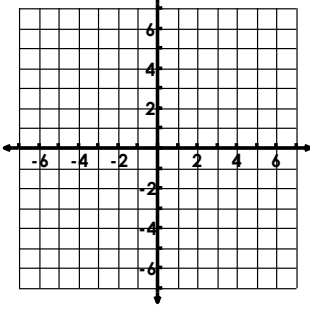


Study Guide

What you need to know & be able to do	Things to remember	Problem	Problem
Use the algebraic properties to explain the process of solving a 1-variable equation	<ul style="list-style-type: none"> Study your Algebraic Properties page! 	1. Identify the property for each step: $-11 = 3x + 1$ a) $-11 - 1 = 3x + 1 - 1$ b) $-12 = 3x$ c) $\frac{-12}{3} = \frac{3x}{3}$ e) $-4 = x$	-
Solving a 1-variable equation	<ul style="list-style-type: none"> Simplify each side by distributing and combining like terms Move all variables to one side Solve the resulting equation 	2. $1.2x + 20 = -4.8x - 4$	3. $-3(x - 3) = x + 11$
Solving a 1-variable inequality	<ul style="list-style-type: none"> When you multiply or divide by a negative, switch the direction of the inequality Graph the inequality on a number line 	4. $-4x + 12 < 20$ 	5. $-2(x - 3) \geq 3x + 1$ 
Graph a linear equation	<ul style="list-style-type: none"> Put in slope-intercept form to graph. $y = mx + b$ 	6. $y = -3x + 6$ 	7. $2x - 4y = -12$ 
Solve Literal Equations	<ul style="list-style-type: none"> Undo order of operations from bottom up 	8. $x = \frac{y + 4}{3}$ Solve for y	9. $D = RT$ Solve for R

Study Guide

<p>Find the solution of a system of linear equations by graphing.</p>	<ul style="list-style-type: none"> • Get "y" by itself. • Identify the slope (m) and the y-int (b) • $y = mx + b$ • Check your answer! 	<p>10. $y = x - 4$ $x + y = 6$</p> 	<p>$y = x + 2$</p> <p>11. $y = \frac{1}{4}x - 1$</p> 
<p>Find the solution of a system of linear equations by elimination.</p>	<ul style="list-style-type: none"> • Decide which variable you want to get rid of. • Make sure the coefficients are opposite • Add the two equations. • Solve for the variable. • Substitute back into the original. • Check your answer! 	<p>12. $3x + 4y = 14$ $-3x + 2y = -2$</p>	<p>13. $6x - 3y = 21$ $-2x - 2y = -22$</p>
		<p>14. $2x + y = 5$ $-x + y = -1$</p>	<p>15. $2x - 3y = 9$ $2x + 3y = 3$</p>
<p>Graph a linear inequality</p>	<ul style="list-style-type: none"> • Put in slope-intercept form to graph. $y = mx + b$ • Test a point to figure out which side to shade • Use a solid line for inequalities WITH equal signs; dotted line for inequalities WITHOUT equal signs. 	<p>16. $y \leq -\frac{1}{3}x + 5$</p> 	<p>17. $3x - 2y < 8$</p> 
<p>Solving a systems of equations word problem</p>	<ul style="list-style-type: none"> • Define variables • Set up equations • Solve using elimination 	<p>18. Joe bought a total of 20 hamburgers and hot dogs for \$90. Hamburgers cost \$5.25 each and hot dogs cost \$2.75 each. How many hamburgers and hotdogs did Joe buy?</p>	