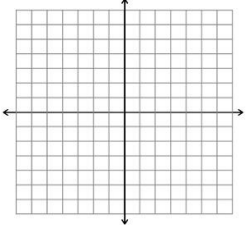
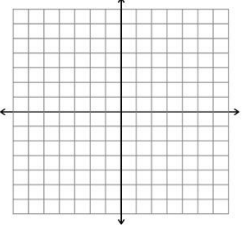
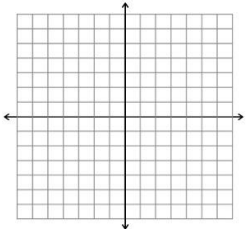
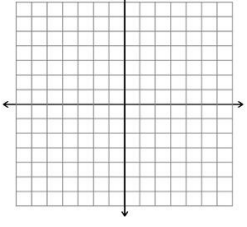
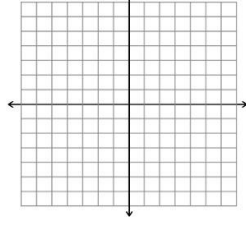


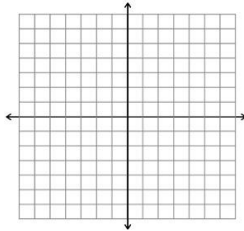
<p>2.3/2.4/2.8 – solve multi-step equations</p>	<p>3.1a – graph linear equations using a table</p> 	<p>3.1b – graph linear equations using intercepts</p> 
<p>3.3 - find the slope of a line between two points</p>	<p>4.1 – graph an equation using slope-intercept form</p> 	<p>4.2 – write linear equations in slope-intercept form</p>
<p>1.7 – interpret/evaluate function notation If $f(x) = 2x + 5$ find $f(-7) = 2(-7) + 5 = -9 \Rightarrow (-7, -9)$</p> <hr/> <p>x if $f(x) = 23$. $2x + 5 = 23$ $2x = 18 \quad x = 9$ $(9, 23)$</p>	<p>4.3 – write equations in point-slope form Book: $y - y_1 = m(x - x_1)$ <i>past</i> Bruin: $y = y_1 + m(x - x_1)$</p> <hr/> <p>Line through $(-3, 8)$ with slope $= \frac{4}{5}$. $y = 8 + \frac{4}{5}(x - (-3))$ $y = 8 + \frac{4}{5}(x + 3)$</p>	<p>4.4 – write equations for parallel/perpendicular lines If $y = 2x - 8$ parallel $\Rightarrow m = 2$ perpendicular $\Rightarrow m = -\frac{1}{2}$</p> <hr/> <p>Find line perpendicular to $y = -2x + 24$ through $(7, 10)$. $m = \frac{1}{2}$ $y = \frac{1}{2}x + b$ $10 = \frac{1}{2}(7) + b$ $10 = 3.5 + b$ $6.5 = b$ $y = \frac{1}{2}x + 6.5$</p>
<p>4.7 – find and evaluate inverse functions</p>	<p>5.3 – solve multi-step inequalities</p>	<p>5.4 – solve compound inequalities</p>
<p>5.5 – solve absolute value inequalities</p>	<p>5.6 – graph linear inequalities</p> 	<p>6.1 – solve systems of equations by graphing</p> 

6.2 – solve systems of equations by substitution

6.3 – solve systems of equations by simple elimination

6.4 – solve systems of equations by elimination

6.6 – solve systems of linear inequalities



7.1/7.2 – apply exponent product/quotient properties

$$(3x^3y^5)^2(-2xy^4) = 9x^6y^{10} \cdot -2x^1y^4$$

$$\boxed{-18x^7y^{14}}$$

$$\frac{18x^0y^{-3}z^8}{6x^3y^{-5}z^7} = \frac{3y^7z}{x^3}$$

7.3 – simplify rational exponents

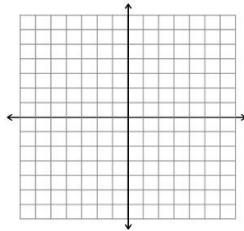
$$8^{4/3} = (8^{1/3})^4 = 2^4 = 16$$

$$25^{3/2} = (25^{1/2})^3 = 5^3 = 125$$

$$* 8^{1/3} = \sqrt[3]{8}$$

$$25^{1/2} = \sqrt{25}$$

7.5 – write and graph exponential functions



7.6 – solve exponential growth and decay word problems
 $y = A(1 \pm r)^t$ $\begin{matrix} + \Rightarrow \text{growth} \\ - \Rightarrow \text{decay} \end{matrix}$

Sports car purchased for \$27,000 depreciates 12.5% per year. What's the value after 10 years?
 $y = 27,000(1 - .125)^{10}$
 $y = 27,000(0.875)^{10} = \boxed{\$7,103}$

8.1 – add/subtract polynomials

$$(7x^2 - 3) - (5x^2 + 2x - 8)$$

$$\begin{array}{r} x^2 \quad \quad x \quad \quad 1 \\ 7x^2 + 0x - 3 \\ + \quad -5x^2 + 2x + 8 \\ \hline 2x^2 - 2x + 5 \end{array}$$

8.2-8.4 – multiply polynomials

8.6 – factor and solve quadratic equations

$$x^2 - 6x + 8 = -8 \quad * \text{need one side} = 0$$

$$x^2 - 6x + 8 = 0$$

$$(x-4)(x-2) = 0$$

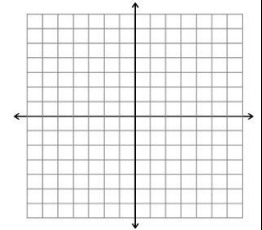
$$\boxed{x=4} \quad \boxed{x=2}$$

$$2x^2 - 6x = 0$$

$$(2x)(x-3) = 0$$

$$\boxed{x=0} \quad \boxed{x=3}$$

9.3a – graph quadratics by making a table and stretching vertically/moving up and down



9.2/9.3c – graph quadratics by factoring first to find the zeros

Use this space for anything else you feel you need on your sheet.

