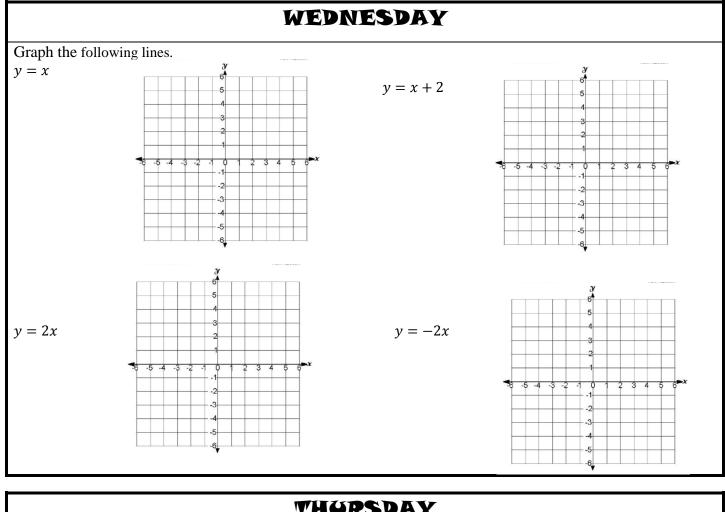
Name

MONDAY	
Solve by factoring. $12x^2 - 30x = 0$	Rewrite the following in vertex form using completing the square. Show all work! $y = 3x^2 + 30x + 2$
Solve by taking square roots. $6x^2+5=155$	
Solve by completing the square. $x^2 + 18x = -3$	Rewrite from vertex form to standard form. $y = -2(x - 3)^2 + 4$
Solve using the quadratic formula. $3x^2 - 7x = 1$	
Solve using any method. $2x^2 - 6x - 1 = 3$	Rewrite from standard to vertex form. $y = 2x^2 + 28x - 3$
Find the discriminant and determine the number of solutions. $3x^2 - 2x + 1 = 0$	
An object is launched at 19.6 meters/sec from a 58.8- meter-tall platform. The equation for the object's height s at time t seconds after launch is s(t) = -4.9t ² + 19.6t + 58.8, where s is in meters. When does the object strike the ground?	The length of a rectangle is 6 inches more than its width. The area of the rectangle is 91 square inches. Find the dimensions of the rectangle.

Name ___



THURSDAY	
Describe the transformations from the parent function $f(x) = x^2$. a. $f(x) = x^2 + 5$	The function $y = \frac{2}{5}x + 4$ is shifted down 7 units. What is the equation of the new function?
b. $f(x) = (x+5)^2 - 4$	
Describe the transformations from f(x): a. $f(x + 4) - 12$ b. $-f(x)$ c. $3f(x - 2) + 1$	If the function $h(x)$ goes through the point $(-5,7)$, then the function $-h(x)$ must go through what point?
	Identify the transformation that shifts to $y = \frac{1}{5}x - 6$ the function $y = \frac{1}{5}x + 2$.