Name _____

SM2 A**#5.7** Quadratic Graphs ⇔ x-int Form ⇔ Standard Form



	Name
7. Given the Roots $\frac{1}{2}$ & 6. Write an equation in Standard Form.	 The x-intercepts are x = -4 & x = 1, write an equation in x-int form & standard form.
	x-int form:
	Standard form:
9. Sketch a the graph that has zeros of -7 & 1	10. Factor: $x^2 - 4x - 45$
11. Factor: $5x^2 + 39x - 8$	12. Factor Completely: $7x^2 + 28x - 147$
	(X)(X)
13. Factor Completely: $4x^2 - 36$	14. Factor out the GCF $15x^3y^2 - 35x^4y$
(x)(x)	

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15. Find the zeros, then sketch $2x^2 - 18x = -36$	a graph.	16. Find the solutions: $x^2 - 70 = -3x$
		What are the 3 other words to describe solutions?
17. For the quadratic Polynomia $3x^2 + 13x - 30$	I list the following:	18.Factor: $y = 4x^2 + 2x - 30$
Factors Coefficients	Terms	x-intercepts: (, (,) y-intercept (,) Graph the above and label your graph:
19. From the graph at the right Find the following and decide if the following are standard form, vertex form, or x-intercept form. Then complete so they match the graph.What are the roots of the graph x-Intercept Form: $y = (x_{)}(x_{)})$ Standard Form: $y = (x_{2} + x + y_{1})$ Vertex Form: $y = (x_{1})^{2} + y_{1}$		