Na	ame:	Date:		Period:
Show all your work on a separate sheet of paper.				
1.	The solution set of the equation $x^2 - 4x = 0$ is	:	13.	The solution set of the $x^2 - 5x + 6 = 0$ is:
2.	What is the solution set of the equation x ² +	3x – 10 = 0?	14.	What is the solution set of the equation $x^2 = 49$?
3.	What is the smaller root of $(x + 4)(x - 3) = 0$?		15.	Find the negative solution of $2x^2 + 5x - 3 = 0$.
4.	What is the positive root of $3x^2 = 27$?		16.	Solve for the positive value of x: $\frac{1}{x-1} = \frac{x-1}{4}, x \neq 1$
5.	Find the positive value of x: $\frac{2x+5}{7} = \frac{1}{x}, x \neq 0$		17.	Find the positive root of x: $\frac{x+3}{3x} = \frac{x}{12}, x \neq 0$
6.	What is an equation of the axis of symmetry whose equation is $y = x^2 - 4x - 6$?	of the graph	18.	What is an equation of the axis of symmetry of the graph whose equation is $y = x^2 + 6x + 7$?
7.	The solution set of the equation $x^2 - x - 6 = 0$) is:	19	The solution set of the $x^2 - 5x - 6 = 0$ is:
8.	The solution set of the equation $x^2 - 3x - 4 =$	0 is:	20.	The solution set of the equation $x^2 - 2x - 3 = 0$ is:
9.	The smallest member of the solution set of $(x - 3)(x + 2) = 0$ is:		21.	Find the solution of $4x^2 = 64$.
10.	What is the positive root of $3x^2 + 5x = 8$?		22.	Solve for x: $\frac{x-4}{5} = \frac{1}{x}, x \neq 0$
11.	Find the positive value of y: $\frac{3+y}{2y} = \frac{y-1}{y}, y \neq y$	0	23.	Find the positive root of x: $\frac{1}{x-1} = \frac{x+2}{4}, x \neq 1$
12.	What is an equation of the axis of symmetry graph whose equation is $y = x^2 + 8x - 10$?	of the	24.	What is an equation of the <u>axis of symmetry</u> of the graph whose equation is $y = 2x^2 - 3x - 1$?
Part II Graphing Questions				
1.	 (a) On graph paper, graph y = x² - 4x + 9 for -1 ≤ x ≤ 5. (b) On the same set of axes, graph y - x = 5. (c) What is the solution to the system of equals 		2.	 (a) On graph paper, graph y = -x² + 4x - 3 for the interval -1 ≤ x ≤ 5. (b) On the same set of axes, graph y + 1 = x. (c) What is the solution to the system of equations?