Algebra Review Solving Quadratics		
I. Solve by Factoring (any met	Name	
1) $x^2 - 64 = 0$	2) $x^2 - 6x - 16 = 0$	3) $x^2 + 3x = 40$
4) $2x^2 + 3x + 1 = 0$	5) $x^2 - 100 = 0$	6) $x^2 + 6x = 0$
II. Solve by Square Roots   7) $x^2 = 64$ 8) $4x^2 = 81$	9) $x^2 + 7 = -300$	10) $(x-5)^2 = 36$
III. Solve by using the quadratic fo 11) $x^2 + 3x + 2 = 0$	<b>rmula:</b> 12) $4x^2 - 8x = 1$	13) $x^2 + 8x = 0$
IV Solve these by completing the $x^2 - 2x - 8 = 0$ 1.	<b>square:</b> 5) X <sup>2</sup> +2x -48 =-6	16) 8x <sup>2</sup> – 16x + 32 =0
V. Solve each equation using an efficient method. Show your work.		
17) $x^2 + 11x + 18 = 0$	18) $x^2 + 2x + 1 = 15$	19) $7x^2 - 9x + 1 = 0$

20)  $(x + 2)^2 = 36$ 21)  $x^2 - 10x + 25 = 0$ 22)  $x^2 + 3x + 7 = 0$  23)  $x^2 = 36$ 

## VI. Word Problems:

26) The altitude of a triangle is 5 less than its base. The area of the triangle is 42 square inches. Find its base and altitude.

27) If the measure of one side of a square is increased by 2 centimeters and the measure of the adjacent side is decreased by 2 centimeters, the area of the resulting rectangle is 32 square centimeters. Find the measure of one side of the square (the **original** figure).

28) The length of a rectangle is 4 m more than the width. The area is  $30 \text{ m}^2$ . Find the width and the length.

29) The product of two consecutive even integers is 288. Find the two integers.