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Name	 Period	
Name	<sub>.</sub> Period	

You will be taking a Basic Skills Quiz each Friday.

At the end of the quarter, your best three grades will be averaged and count as a 100 point test.

Once you have earned an A on two of these quizzes, you may choose exemption from further quizzes for the rest of the quarter.

## Topics on Quarter 4 Skills Quizzes (A Calculator is permitted on these 4th quarter skills quizzes.)

1. Solve Equation that is Already Factored (3 pts.)

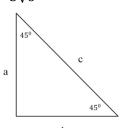
a. $(x-6)(x+3) = 0$	b. $(x)(x+9) = 0$	c. $(2x-1)(x-9)=0$	d. $(3x + 7)(2x - 5) = 0$

2. Solving a Quadratic Equation using Various Methods (6 pts.)

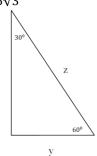
a. Solve $x^2 - 10x = 39$ by either factoring and zpp, completing the square and solving, or the quadratic formula.	Solve $x^2 - 10x = 39$ .	Solve $x^2 - 10x = 39$ .
b. Solve $x^2 - 8x = 33$ by either factoring and zpp, completing the square and solving, or the quadratic formula.	Solve $x^2 - 8x = 33$ .	Solve $x^2 - 8x = 33$ .
c. Solve $x^2 - 4x = 21$ by either factoring and zpp, completing the square and solving, or the quadratic formula.	Solve $x^2 - 4x = 21$ .	Solve $x^2 - 4x = 21$ .

3. Solving Special Right Triangles (6 pts.)

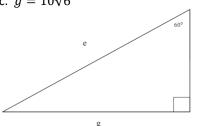
a.  $b = 5\sqrt{6}$ 



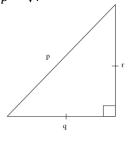
b.  $y = 5\sqrt{3}$ 



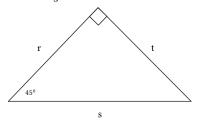
c.  $g = 10\sqrt{6}$ 



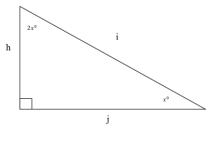
d.  $p = \sqrt{7}$ 



e.  $r = \frac{10\sqrt{21}}{10\sqrt{21}}$ 



f.  $i = 5\sqrt{5}$ 



4. Identify the Percent Increase and Decrease for each. (3 pts.)

a. 100 → 140	b. 100 → 170	c. 100 → 200
d. 80 → 140	e. 80 → 200	f. 150 → 160

You will be given 3 bits of information about a triangle.

- a. A Right Angle
- b. A Side Length
- c. Either another Side Length or an Angle Measurement called Theta ( heta)

