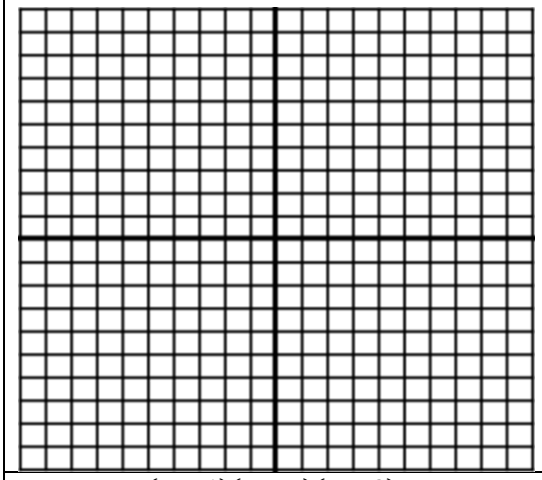
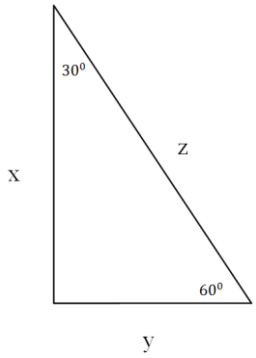
Algebra 2 Basic Skills Quiz Practice (Qtr2) Name _____ Period _____
Calculators are NOT allowed on these quizzes. This is practice for the quiz.

1. Accurately graph $y = -x^2 + 3$. 	2. Solve the triangle when $z = 24$. 
2. Multiply $(x + 1)(x - 7)(x - 3)$	4. Factor $3x^2 - 10x - 8$.

Algebra 2 Basic Skills Quiz Practice (Qtr2) Name _____ Period _____
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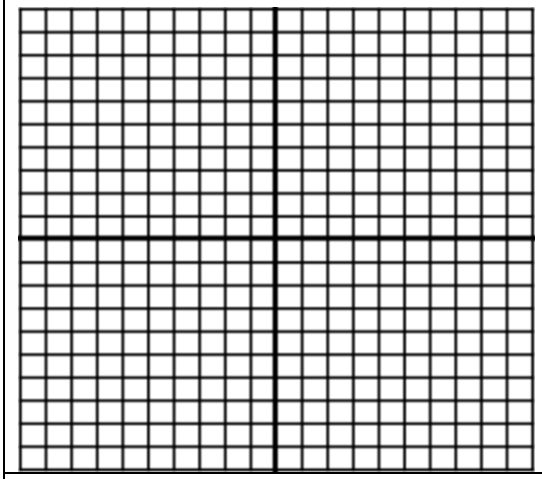
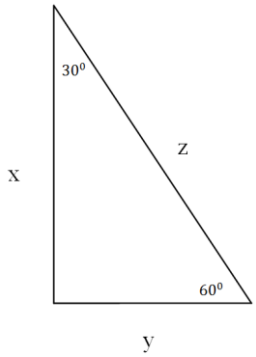
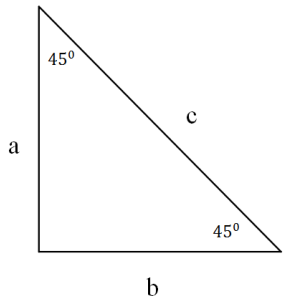
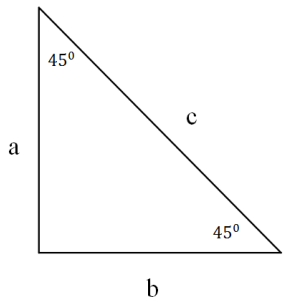
1. Accurately graph $y = \sqrt{x} + 3$. 	2. Solve the triangle when $y = 5$. 
2. Multiply $(x - 1)(x - 4)(x + 6)$	4. Factor $2x^2 + 5x - 12$.

7. Solve the triangle when $b = 5\sqrt{3}$.  	8. Determine the equation of the inverse of the given function. Finalize your answer by solving for y. $f(x) = \sqrt{x-4} + 2$
7. Solve $x^2 - 8x = 20$ by either factoring and zpp, completing the square and solving, or the quadratic formula.	8. Solve $x^2 - 8x = 20$ using another technique.

7. Solve the triangle when $c = 7\sqrt{2}$.  	8. Determine the equation of the inverse of the given function. Finalize your answer by solving for y. $f(x) = \frac{4}{3}x - 2$
7. Solve $x^2 - 10x = -24$ by either factoring and zpp, completing the square and solving, or the quadratic formula.	8. Solve $x^2 - 10x = -24$ using another technique.

Solving Special Right Triangles

Draw an accurate square (take your time), and then draw a single segment that splits this square into two equal triangles.	Draw an accurate equilateral triangle (again, take your time), and then draw a single segment that splits this equilateral triangle into two equal triangles.
The two triangles above are called isosceles right triangles or 45-45-90 triangles. Do you see why? Please explain.	The triangles above are called 30-60-90 triangles. Do you see why? Please explain.

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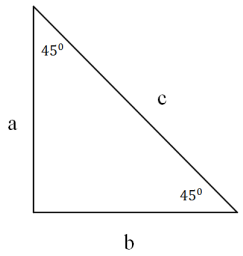
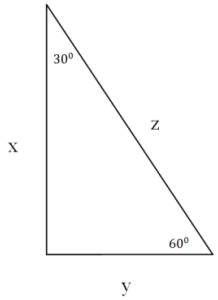
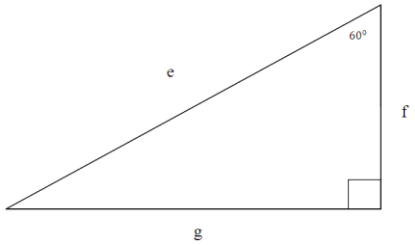
a. $b = 5\sqrt{6}$



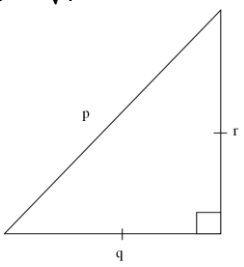
b. $y = 5\sqrt{3}$



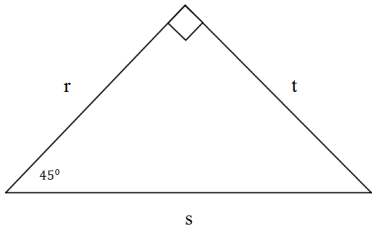
c. $g = 10\sqrt{6}$



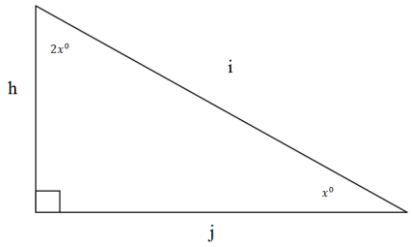
d. $p = \sqrt{7}$



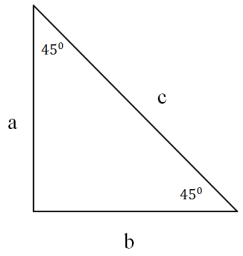
e. $r = \frac{10\sqrt{21}}{3}$



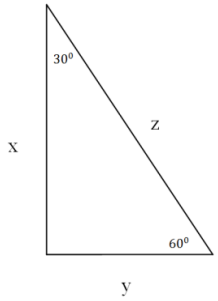
f. $i = 5\sqrt{5}$



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



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



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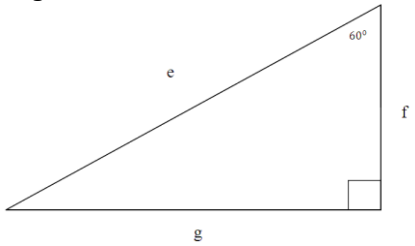

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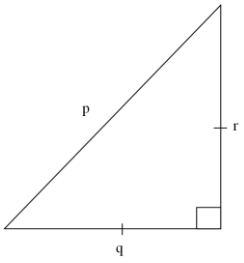

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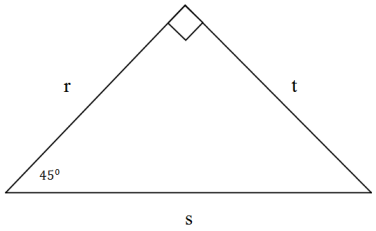

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