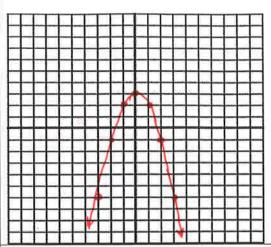
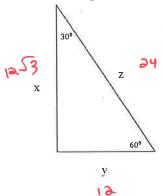
Calculators are NOT allowed on these quizzes. This is practice for the quiz.

1. Accurately graph $y = -x^2 + 3$.



2. Solve the triangle when z=24.



2. Multiply (x + 1)(x - 7)(x - 3)

 $x^{3} - 3x^{2} - 6x^{2} + (8x - 7x + 2)$

x3 -9x + 11x +21

4. Factor $3x^2 - 10x - 8$.

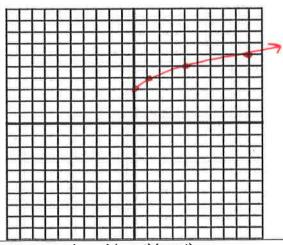
Algebra 2 Basic Skills Quiz Practice (Qtr2)

Name

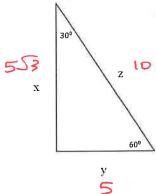
Period

Calculators are NOT allowed on these quizzes. This is practice for the quiz.

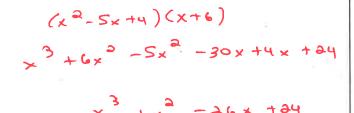
1. Accurately graph $y = \sqrt{x} + 3$.



2. Solve the triangle when y = 5.



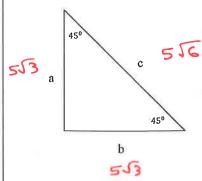
2. Multiply (x-1)(x-4)(x+6)



4. Factor $2x^2 + 5x - 12$.

$$(2x - 3)(x + 4)$$

7. Solve the triangle when $b = 5\sqrt{3}$.



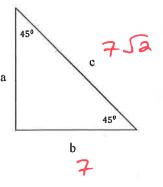
7. Solve $x^2 - 8x = 20$ by either factoring and zpp, completing the square and solving, or the quadratic formula.

8. Determine the equation of the inverse of the given function. Finalize your answer by solving for \boldsymbol{y} .

$$f(x) = \sqrt{x - 4} + 2$$

8. Solve $x^2 - 8x = 20$ using another technique.

7. Solve the triangle when $c = 7\sqrt{2}$.



7. Solve $x^2 - 10x = -24$ by either factoring and zpp, completing the square and solving, or the quadratic formula.

8. Determine the equation of the inverse of the given function. Finalize your answer by solving for y.

$$f(x) = \frac{4}{3}x - 2$$

8. Solve $x^2 - 10x = -24$ using another technique.

Solving Special Right Triangles	
Draw an accurate square (take your time), and then draw	Draw an accurate equilateral triangle (again, take your
a single segment that splits this square into two equal	time), and then draw a single segment that splits this
triangles.	equilateral triangle into two equal triangles.
450	30 30 600
	The triangles of the second of 20 CO CO triangles. Do you
The two triangles above are called isosceles right	The triangles above are called 30-60-90 triangles. Do you
triangles or 45-45-90 triangles. Do you see why? Please	see why? Please explain.
explain.	
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	*
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.
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The two triangles above are called isosceles right	The triangles above are called 30-60-90 triangles. Do yo
The two triangles above are called isosceles right triangles or 45-45-90 triangles. Do you see why? Please	The triangles above are called 30-60-90 triangles. Do yo see why? Please explain.
triangles or 45-45-90 triangles. Do you see why? Please	
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triangles or 45-45-90 triangles. Do you see why? Please	
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