PRE-CALCULUS 11

FINAL EXAM REVIEW CHART

I can	Examples, textbook pages, notes.	I got this ☺	I need to review this !!!
	Quadratic Function		
... define a function and give graphical examples of a linear, quadratic and other functions.			
... explain the differences and similarities between a function and a relation.			
... give graphical examples of a relation that is not a function and justify why it fits the description.			
... determine the domain of a function or a relation.			
... determine the range of a function or a relations.			
... describe the domain and range using a variety of methods: set notation, interval notation, inequality statement, or a sentence.			
... carry out the vertical line test.			
... describe a quadratic function given its graph: domain, range, equation of the line of symmetry, opening, vertex, transformations.			

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... graph a quadratic function given its equation in vertex form.			
... graph a quadratic function given its equation in standard form **(a.k.a. Complete the square first).**			
... describe all transformations of a quadratic function given its equation.			
... describe all transformations of a quadratic function given its graph (R in x-axis, VSC, VSE, HT, VT).			
... complete the square given an equation with a leading coefficient of positive one.			
... complete the square given an equation with a leading coefficient different from positive one.			
... determine whether a function is quadratic.			

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... determine the **exact** coordinates of the y-intercept given a graph or an equation.			
... determine the **exact** coordinates of the x-intercepts given a graph or an equation.			
... graph a parabola given its description in words.			
... explain what the terms: congruent and coinciding.			
... explain the relationship between the roots, zeros, x-intercepts and solutions.			
	Quadratic Equations		
... solve a quadratic equation using the quadratic formula.			
... solve a quadratic equation using the square root principle.			
... solve a quadratic equation using the square root principle.			
... solve a quadratic equation by graphing.			
... calculate the discriminant.			
... determine the nature of the solution by calculating the discriminant.			

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... algebraically determine whether a given point is a solution to a quadratic equation.			
... determine whether a given point is a solution to a quadratic equation given a graph.			
... solve word problems involving quadratic equations such as optimization problems.			
	Inequalities and Systems of equations		
... graph a solution to a linear inequality in one variable using a number line.			
... graph a solution to a linear inequality in two variables and describe the solution region in words.			
... solve a quadratic inequality using cases or graphs.			
... graph a solution to a quadratic inequality in one variable using a number line.			
... graph a solution to a quadratic inequality in two variables and describe the solution region in words.			
... explain what a solid and a dashed line of a solution boundary stands for.			

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...explain the difference between a strict inequality and a non-strict inequality.			
--- solve a linear-quadratic system of equations by substitution.			
... determine whether a given point is a solution to a system of equations.			
... solve a quadratic-quadratic system of equations by substitution.			
--- solve a linear-quadratic system of equations by graphing.			
--- solve a quadratic-quadratic system of equations by graphing.			
... solve a linear-linear system of inequalities **(L4).**			
...solve a linear-quadratic system of inequalities **(L4).**			
... solve a quadratic-quadratic system of inequalities **(L4).**			

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... define an angle.			
... draw a labeled diagram of an angle in standard position given its degree measure.			
... determine whether two given angles are coterminal.			
... find all coterminal angles in a restricted domain given an angle.			
... define a reference angle and labeled in a diagram.			
... calculate the degree measure of a reference angle to any angle.			
... explain the difference between the positive and negative angles.			
...use special triangles to determine the **exact** values of the basic trigonometric ratios of all angles that have a reference angel of 45°, 30° *and* 60°.			
... determine the **exact** values of the basic trigonometric ratios of 0°, 90° , 270° *and* 180°.			

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... determine the value of the basic trigonometric ratios given the coordinates of a point on the terminal arm.			
... apply the Pythagorean Theorem.			
... apply SOH, CAH, TOA to any right-angled triangle.			
... determine the value of any two basic trigonometric ratio given the exact value of the third ratio.			
... apply the Sine Law to find a side length.			
... apply the Sine Law to find an angle.			
... apply the Cosine Law to find a side length.			
... apply the Cosine Law to find an angle.			
... apply the Sine Law to solve word problems.			
... apply the Cosine Law to solve word problems.			