

# Ms. Gentry's ~ Lesson plans Week of: February 4<sup>th</sup>

	ALGEBRA I	GEOMETRY	ALGEBRA II	INTEGRATED MATH
M O N D A Y	Review Page over material covered in chapter 6 so far Solving and graphing inequalities Absolute value equalities Compound inequalities	Chapter 6 Open Book Quiz Similar Figures/Proportions	Add and subtract rational expressions. Find common denominator for unlike denominators. Assign p. 340: 3-24 every 3 <sup>rd</sup> A.APR.7+ Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication and division by a nonzero rational expression: add, subtract, multiply and divide rational expressions.	Start Chapter 5 Calculate exponential growth and decay. Look at both discrete and continuous models. Apply to compound interest and population growth models. Assign page 271: 2-11
	<b>Writing is incorporated in</b>	<b>daily explanations &amp; justifications</b>	<b>of math problems</b>	
T U E S D A Y	Solve absolute inequalities. Graph solutions on a number line. Work examples together and set up real world problems to solve. Assign page 401: 3-30 very 3 <sup>rd</sup> , 35,36 A.CED.1 Create equations and inequalities in one variable and use them to solve problems. Include equations arising from linear functions.	Quiz for those absent on Monday  Algebra Review in preparation for work with Pythagorean Theorem and Trigonometry Solve quadratic equations and simplify radicals. P 423:1-17	Simplify complex fractions. Compare different methods. Solve real world problems. Assign p 340: 31-34,41,42 A.APR.7+ Understand that rational expressions form a system analogous to the rational numbers, closed under addition, subtraction, multiplication and division by a nonzero rational expression: add, subtract, multiply and divide rational expressions.	Review negative exponent properties – start with review problems in the toolbox 14: page 636 (1-8) on page 274: 29-31 Relate this type of negative exponent to exponential models. Work samples together in class and assign problems on page 277 2-7 and work 8-11 in teams and present findings.
	<b>ALGEBRA I</b>	<b>GEOMETRY</b>	<b>ALGEBRA II</b>	<b>INTEGRATED MATH</b>
W E D N E S D A Y	Graph linear equations in 2 variables. Identify what ordered pairs are solutions to inequalities. Graph the boundary line for the inequality, check the origin or other point for solution and shade correct half plane. Use geogebra to demonstrate. Assign handout of practice problems. Review vertical and horizontal linear equations. A.REI.12 Graph the solutions to a linear inequality in 2 variables as a half plane. School Academy -	Pythagorean theorem Apply the Pythagorean theorem to solve right triangles. Examine various proofs of the theorem and a history of Pythagoras. Review use of calculators to calculate square roots. Familiarize selves with Pythagorean triples. Assign page 436: 4-28 evens, 31-34 G.SRT.8: use Pythagorean theorem to solve right triangles in applied problems.  School Academy -	Solve rational equations Use cross products to solve equations. Check for extraneous solutions by substituting back into original equation. A.REI.2 Solve simple rational and radical equations in one variable and give examples showing how extraneous solutions may arise. p 349 4-22 evens  School Academy -	Continue to review negative exponent properties – start with review problems in the toolbox 14: page 636 (1-8) on page 274: 29-31 Relate this type of negative exponent to exponential models. Work samples together in class and assign problems on page 277 2-7 and work 8-11 in teams and present findings.  School Academy -

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T H U R S D A Y	<p>Use the Geogebra program to check graphs of inequalities and graph a variety of lines and create designs using geogebra.</p> <p>Ms. Gentry gone - substitute</p>	<p>Use the converse of the Pythagorean theorem to determine if a triangle is a right triangle. Classify triangles using the converse as an inequality. Assign page 444: 3-31 every 3<sup>rd</sup>, 35,36 G.SRT.8 use Pythagorean theorem to solve right triangles in applied problems.</p> <p>Ms. Gentry gone - substitute</p>	<p>Describe and compare functions characteristics. F.IF.9 Compare properties of two functions each represented in a different way ( algebraically, graphically, numerically in tables , or by verbal descriptions) p 361 3-8, 10-12, 15-24, 26, 29</p> <p>Ms. Gentry gone - substitute</p>	<p>Practice college placement test</p> <p>Ms. Gentry gone - substitute</p>
	ALGEBRA I	GEOMETRY	ALGEBRA II	INTEGRATED MATH
F R I D A Y	<p>Start review of chapter 6: Solve one-step, multi-step, compound, and absolute value inequalities. Graph absolute value and linear inequalities. Assign p. 419: 1-16 A.REI.3 A.CED.1 A.REI.12</p> <p>Ms. Gentry gone - substitute</p>	<p>Real life applications of the Pythagorean theorem. In class cooperative learning activity. Ex: Calculate runner and pitcher speeds along with distances between bases to determine if batter can be tagged out. Make sense of problems and persevere in solving them.</p> <p>Ms. Gentry gone - substitute</p>	<p>ACT PRACTICE</p> <p>Ms. Gentry gone - substitute</p>	<p>Take practice placement test</p> <p>Ms. Gentry gone - substitute</p>