Grades 9-10 Distance Learning Module 3 Week of: 4/13 – 4/17th

Mathematics: Geometry Honors - Modified from Unit D - Polygons

Targeted Goals from Stage 1: Desired Results

Content Knowledge: the corresponding sides of similar polygons are proportional and the corresponding angles are congruent, if a lines is parallel to one side of a triangle and intersects the other two sides, it divides those sides proportionally, if three or more parallel lines are intersected by two transversals, the parallel lines divide the transversals proportionally if a ray bisects an angle of a triangle, it divides the opposite side into segments that are proportional to the adjacent sides, simplifying radicals with numbers and variables, solving quadratics using factoring and square roots

Vocabulary: diagonal, similar, dilation, reduction, proportion, ratio, transversal, radicals, square root

Skills: using proportional reasoning and congruent corresponding angles to find missing dimensions of similar polygons, applying theorems involving proportionality, simplifying rational numbers, solving quadratics

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday:	Word Problems Video	Book Assignment Word Problems (8.4): Pages
8.4 Word Problems		348-350, #s 9, 10, 14, 20
Tuesday:	Three Theorems Involving Proportions Video	Book Assignment Word Problems (8.5): Pages
8.5 Three Theorems		355-356, #s 3, 4, 6, 8, 14, 20, 21, 29, 30
Wednesday:	Chapter 8 Review doc	Chapter 8 Review doc
Chapter 8 Wrap / Catch Up		
Thursday:	Khan Radicals Video 1	Khan Exercise 1
9.1Review of Radicals	Khan Radicals Video 2	Khan Exercise 2
	Khan Radicals Video 3	Khan Exercise 3
Friday:	Khan Factoring Video	Khan Exercise 1

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
9.1 Quadratic Equations	Khan Taking Square Roots Video Khan Square Roots advanced Video	Khan Exercise 2 Khan Exercise 3

Week criteria for success (attach student checklists or rubrics):

- Use several methods to prove that triangles are similar
- Use the concept of similarity to establish the congruence of angles and proportionality of segments
- Apply the three theorems that are frequently used to establish proportionality
- Simplifying radicals and solving quadratics using different techniques

Supportive resources and tutorials for the week (plans for re-teaching): Khan Academy, Kuta Software worksheets, office hours

Chapter 8 Extra Review WS