

Grade 9-10

Distance Learning Module 4: Week of: 4/20/2020 - 4/24/2020

Mathematics: Geometry L2 - Modified from [Unit E - Right Triangles](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: simplifying radicals, the pythagorean theorem, distance formula, altitude/hypotenuse leg theorems

Vocabulary: altitude, hypotenuse, distance, pythagorean theorem, square root

Skills: Simplifying radical numbers, solving quadratic equations, identify the relationship between the parts of a right triangle when altitude is drawn to the hypotenuse.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: 9.1 Review of Radicals	Khan Video - Simplifying Square Roots Khan Video - Simplifying Square Roots (variable) Khan Video - Simplifying Square Root Expressions	Khan Practice - Simplifying Square Roots Khan Practice - Simplifying Square Roots (variables) Khan Practice - Simplifying Square Root Expressions
Tuesday: 9.1 Quadratic Equations	Khan Video - Solving Quadratics by Factoring: Leading Coefficient not equal to 1 Khan Video - Solving Quadratics by Taking Square Roots Khan Video - Quadratics by Taking Square Roots: with steps	Khan Practice - Quadratics by factoring Khan Practice - Quadratics by taking square roots Intro Khan Practice - Quadratics by taking square roots: With steps

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Wednesday: 9.3 Altitude on Hypotenuse	Altitude Leg Video	Alt-Leg WS #s 2 and 3
Thursday: 9.3 Altitude on Hypotenuse	Hypotenuse Leg Video	Bookwork: Page 379-380 #s 1 and 3
Friday: 9.3 Altitude on Hypotenuse	Practice Optional Live Zoom Review	9.1-9.4 Worksheet #s 1-4 (Students will upload a photo on Google Classroom)

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

Students will be able to:

- simplify rational numbers.
- find the real solution(s) of quadratic equations.
- recognize the proportional relationship between hypotenuse and altitude in right triangles.

Supportive resources and tutorials for the week (plans for re-teaching):

Extra Radical Review WS

Extra Alt-Hyp Leg Thms WS