

Unit 8: Right Triangles	~February 3-February 20	
G.8	The student will solve problems, including practical problems, involving right triangles. This will include applying a) the Pythagorean Theorem and its converse; b) properties of special right triangles; and c) trigonometric ratios.	
Topic	I can...	Resources
The Pythagorean Theorem and its Converse	<ul style="list-style-type: none"> ✓ solve for any side length in a right triangle. ✓ classify a triangle using the Pythagorean Theorem. 	From Khan Academy https://www.khanacademy.org/math/geometry/hs-geo-trig https://www.khanacademy.org/math/geometry/hs-geo-trig/hs-geo-modeling-with-right-triangles/a/angles-of-elevation-and-depression
Trigonometric Ratios and Inverse Trig Ratios	<ul style="list-style-type: none"> ✓ solve for missing side lengths in right triangles using trigonometric ratios: sine, cosine, and tangent. ✓ solve for missing angle measures in right triangles using inverse sine, inverse cosine, and inverse tangent ratios. 	From Math Open Ref https://www.mathopenref.com/triangle454590.html https://www.mathopenref.com/triangle306090.html https://www.mathopenref.com/trianglesolving.html https://www.mathopenref.com/pythagorastheorem.html
Special Right Triangles	<ul style="list-style-type: none"> ✓ solve for missing side lengths using properties of special right triangles. 	https://www.mathopenref.com/tocs/trigfunctionstoc.html
Angles of Elevation and Depression	<ul style="list-style-type: none"> ✓ solve real-world problems using trigonometric ratios and properties of special right triangles. 	Sample Assessment/Review with Solutions ..\Unit 8 Right Triangles\Unit 8 Review.pdf ..\Unit 8 Right Triangles\Unit 8 Review SOLUTIONS.pdf