

Teacher / Team Name: Geometry Regular

Topic: Unit 8: Right Triangles and Trigonometry (REG)

Days: 12

Subject(s): Math

Grade(s): 9th, 10th, 11th, 12th

Key Learning: Right triangle properties will be used to find angle measures and side lengths.

Unit Essential Question(s): How are right triangle properties used to find angle measures and side lengths?

Concept:
Geometric Mean

Concept:
Pythagorean Theorem

Concept:
Special Right Triangles

Lesson Essential Question(s):
How is geometric mean used to solve problems involving relationships between parts of a right triangle? (A)

Lesson Essential Question(s):
How can pythagorean theorem be used to find the side lengths of triangles? (A)

Lesson Essential Question(s):
How do you find the lengths of the sides of 30-60-90 and 45-45-90 triangles? (A)

Vocabulary:
geometric mean

Vocabulary:
pythagorean triple

Vocabulary:

Concept:
Trigonometry

Lesson Essential Question(s):
How can trigonometric ratios and their inverses be used to find angle measures and side lengths? (A)

How can trigonometry be used to solve problems involving angles of elevation and depression? (A)

Vocabulary:
trigonometry, trigonometric ratio, sine, cosine, tangent, inverse sine, inverse cosine, inverse tangent

Additional Information:
Sections: 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.7

Attached Document(s):

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Vocab Report for Topic: Unit 8: Right Triangles and Trigonometry (REG)

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Concept: Geometric Mean

geometric mean -

Concept: Pythagorean Theorem

pythagorean triple -

Concept: Trigonometry

trigonometry -

trigonometric ratio -

sine -

cosine -

tangent -

inverse sine -

inverse cosine -

inverse tangent -