

Resource Page: Acute Triangle Trigonometry

Geometry	Develop spatial sense.
General Outcome	
Specific Outcomes	3. Solve problems that involve the cosine law and the sine law, excluding the ambiguous case.

Lesson 1: Laws of Sine

Absolute Value Workbook:

Trigonometry: Lesson 1 and 2 -- Pages 151 - 166

Lesson Links:

- [Relationship of sides to interior angles in a triangle](#)
- [Illuminations: Laws of Sine](#)
- [Sine and Cosine Graphs and Law of Sines using Spaghetti](#) -- Lesson Plans by Michael D. Sturdivant Mathematics Instructor at Arkansas School for Math & Science

Video Links:

- [Ch 8 1 Law of Sines Video Lesson](#)
- [The Sine Law Part 1](#)
- [The Sine Law Part 2](#)

Lesson 2: Proofing Law of Sine

Absolute Value Workbook:

Trigonometry: Lesson 2 -- Pages 159 - 166

Lesson Links:

- [Deriving the Law of Sines from the Area Formula of a Triangle](#)

Video Links:

- [3.2 Proving and Applying the Sine Law](#)

Lesson 3: Laws of Cosine

Absolute Value Workbook:

Trigonometry: Lesson 3 -- Pages 167 - 174

Lesson Links:

- [Illuminations: Laws of Cosine](#)

Video Links:

- [3.3 Proving and Applying the Cosine Law](#)

Lesson 4: Problem Solving

Absolute Value Workbook:

Trigonometry: Lesson 5 -- Pages 181 - 190

Video Links:

- [3.4 Solving Problems Using Acute Triangles](#)