**Preliminaries and Objectives**

- Geometric definition of the sine function.
- Geometric proofs that triangles are congruent (ASA, AAS, SSS, SAS)

**Objectives:**
- Derive the Law of Sines
- Given three parts of a triangle (ASA or AAS), find the missing three parts.

**Law of Sines**

\[
\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}
\]

**ASA and AAS triangles**

Given two angles and one side
- Find the third angle by summing to 180°
- Find the missing sides by using Law of Sines

**Recap**