



### Cosine Rule

$$a^2 = b^2 + c^2 - 2bc \cos A$$

### Cosine Rule to Find Missing Angle

$$\cos A = \frac{b^2 + c^2 - a^2}{2bc}$$

### Sine Rule

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

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

### Area of a Triangle

$$\frac{1}{2} ab \sin C$$