

# Triangle

$$h = a \sin \theta$$

$$\text{Area} = \frac{1}{2}bh$$

Heron's Formula:

$$\text{Area} = \sqrt{s(s-a)(s-b)(s-c)}$$

$$\text{where } s = \frac{1}{2}(a+b+c)$$

Law of Cosines:

$$c^2 = a^2 + b^2 - 2ab \cos \theta$$

