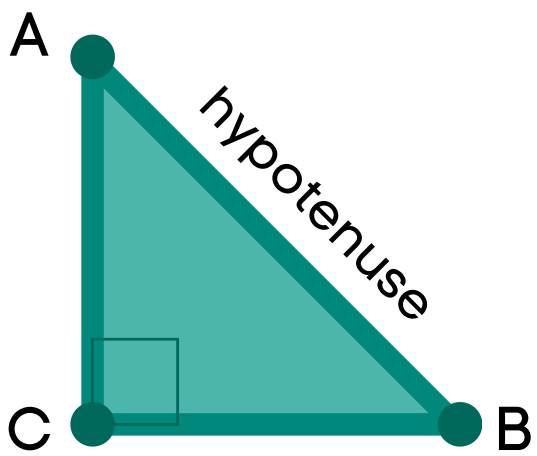
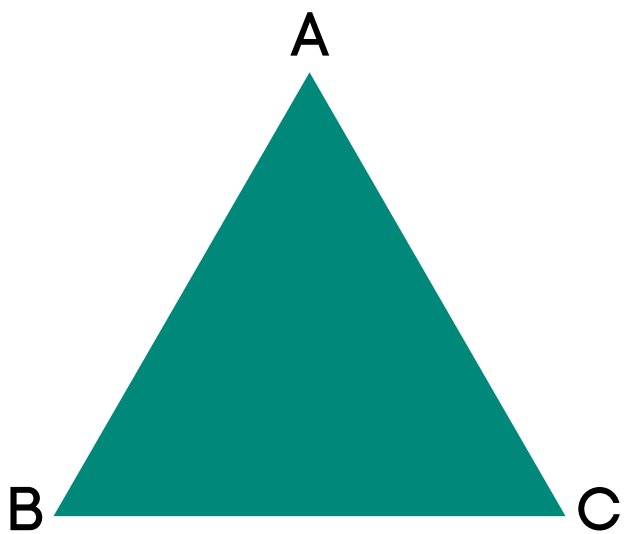
Trigonometry Reference Sheet



$$\sin A = \frac{CB}{AB} \qquad \sin B = \frac{AC}{AB}$$

$$\cos A = \frac{AC}{AB} \qquad \cos B = \frac{CB}{AB}$$

$$\tan A = \frac{CB}{AC} \qquad \tan B = \frac{AC}{CB}$$



Cosine Law (SAS, SSS)

$$(AC)^2 = (BC)^2 + (AB)^2 - 2(BC)(AB)\cos B$$

$$\cos B = \frac{(AC)^2 - (BC)^2 - (AB)^2}{-2(BC)(AB)}$$

Sine Law (SSA, AAS)

$$\frac{\sin A}{BC} = \frac{\sin B}{AC} = \frac{\sin C}{AB}$$