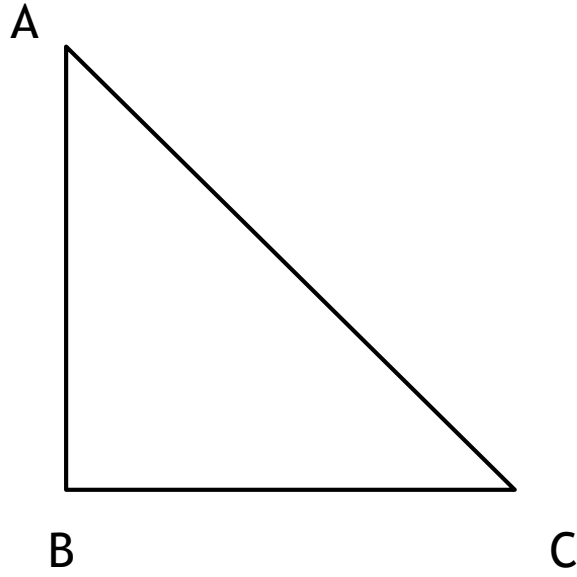
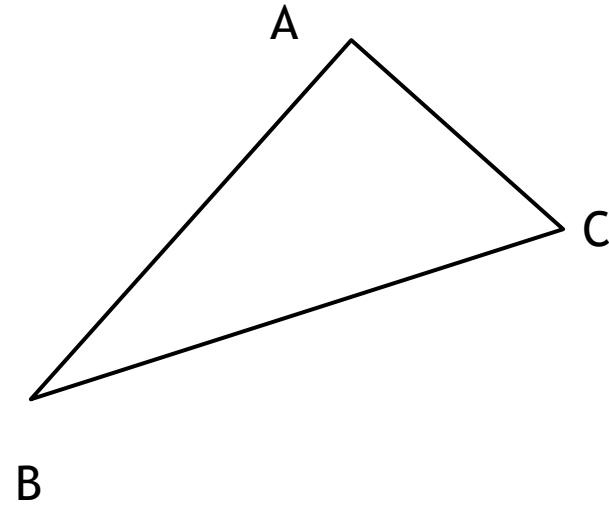


TRIGONOMETRICAL RATIOS OF ASSOCIATED ANGLES



লম্ব =
 অতিভুজ =
 ভূমি =



লম্ব =
 অতিভুজ =
 ভূমি =



লম্ব =
 অতিভুজ =
 ভূমি =

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\sec^2 \theta - \tan^2 \theta = 1$$

$$\operatorname{cosec}^2 \theta - \cot^2 \theta = 1$$

$$\sin \theta = \frac{\text{লম্ব}}{\text{অতিভুজ}}$$

$$\cos \theta = \frac{\text{ভূমি}}{\text{অতিভুজ}}$$

$$\tan \theta = \frac{\text{লম্ব}}{\text{ভূমি}}$$

$$\cot \theta = \frac{\text{ভূমি}}{\text{লম্ব}}$$

$$\sec \theta = \frac{\text{অতিভুজ}}{\text{ভূমি}}$$

$$\operatorname{cosec} \theta = \frac{\text{অতিভুজ}}{\text{লম্ব}}$$

$$\sin^2 \theta + \cos^2 \theta = 1$$

$$\sec^2 \theta - \tan^2 \theta = 1$$

$$\operatorname{cosec}^2 \theta - \cot^2 \theta = 1$$

$$\sin \theta = \frac{\text{লম্ব}}{\text{অতিভুজ}}$$

$$\frac{1}{\sin \theta} = \frac{1}{\frac{\text{লম্ব}}{\text{অতিভুজ}}}$$

$$= \frac{\text{অতিভুজ}}{\text{লম্ব}} = \operatorname{cosec} \theta$$

$$\sin \theta$$

$$\cos \theta$$

$$\tan \theta$$

$$\cot \theta$$

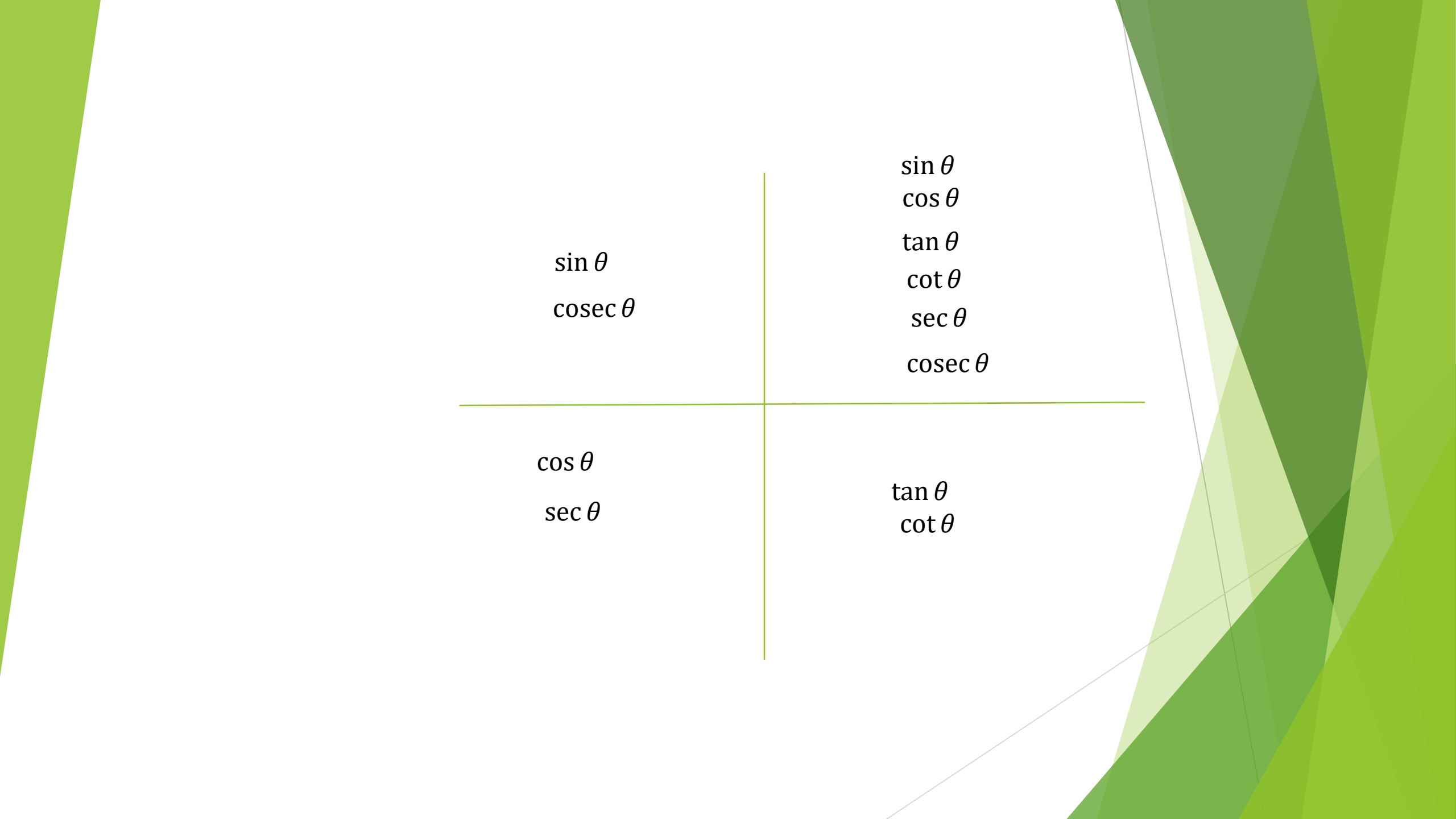
$$\sec \theta$$

$$\operatorname{cosec} \theta$$

$$\operatorname{cosec} \theta = \frac{1}{\sin \theta}$$

$$\sec \theta = \frac{1}{\cos \theta}$$

$$\cot \theta = \frac{1}{\tan \theta}$$



$\sin \theta$
 $\operatorname{cosec} \theta$

$\sin \theta$
 $\cos \theta$
 $\tan \theta$
 $\cot \theta$
 $\sec \theta$
 $\operatorname{cosec} \theta$

$\cos \theta$
 $\sec \theta$

$\tan \theta$
 $\cot \theta$