$$OA = 1$$

$$AC = \sin\theta \qquad OB = \sec\theta$$

$$OC = \cos\theta \qquad OD = \csc\theta$$

$$AB = \tan\theta \qquad AD = \cot\theta$$

Trigonometric Identities

$$\sec\theta = \frac{1}{\cos\theta} \qquad \sin^2\theta + \cos^2\theta = 1$$

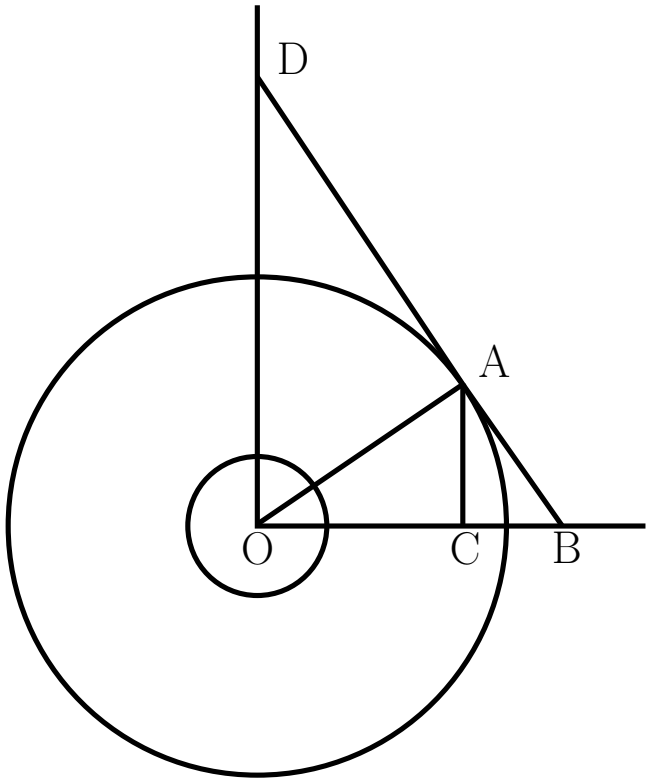
$$\csc\theta = \frac{1}{\sin\theta} \qquad 1 + \cot^2\theta = \csc^2\theta$$

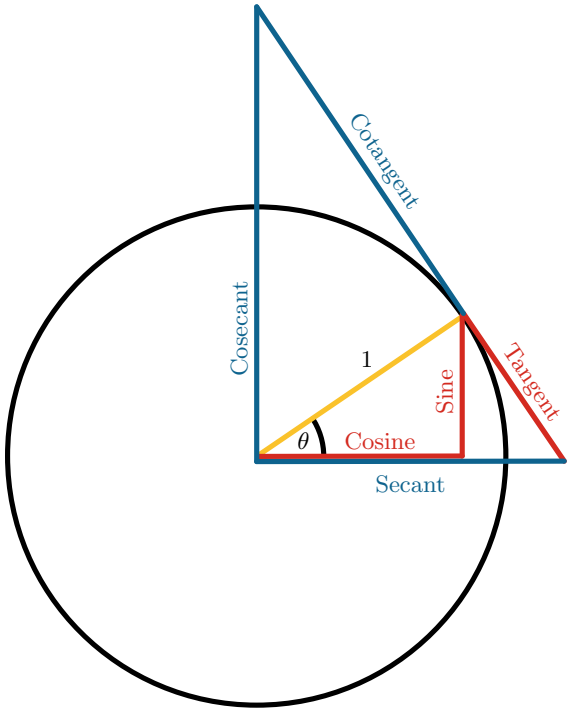
$$\cot\theta = \frac{\cos\theta}{\sin\theta} \qquad 1 + \tan^2\theta = \sec^2\theta$$

$$\sin(\alpha \pm \beta) = \sin\alpha\cos\beta \pm \sin\beta\cos\alpha$$

$$\cos(\alpha \pm \beta) = \cos\alpha\cos\beta \mp \sin\alpha\sin\beta$$

$$\tan(\alpha \pm \beta) = \frac{\tan\alpha \pm \tan\beta}{1 \mp \tan\alpha\tan\beta}$$


D
A
O
C
B


Cotangent
Cosecant
1
Sine
Tangent
θ
Cosine
Secant