

Reciprocal Trigonometric Functions

Recall:

Soh

CaH

Toa

$$\sin \theta = \frac{\text{opp}}{\text{hyp}}$$

$$\cos \theta = \frac{\text{adj}}{\text{hyp}}$$

$$\tan \theta = \frac{\text{opp}}{\text{adj}}$$

you should have this memorized

$$\csc \theta = \frac{\text{hyp}}{\text{opp}}$$

"Cosecant"



reciprocal of sine

$$\sec \theta = \frac{\text{hyp}}{\text{adj}}$$

"Secant"



reciprocal of cosine

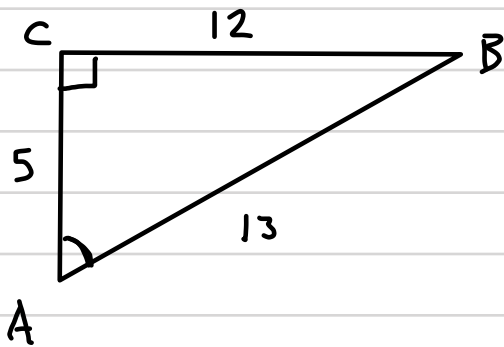
$$\cot \theta = \frac{\text{adj}}{\text{opp}}$$

"Cotangent"



reciprocal of tangent

- 1 Determine the six trigonometric ratios for angle A.



$$\sin A = \frac{12}{13}$$

$$\cos A = \frac{5}{13}$$

$$\tan A = \frac{12}{5}$$

$$\csc A = \frac{13}{12}$$

$$\sec A = \frac{13}{5}$$

$$\cot A = \frac{5}{12}$$