BASIC TRIG FACTS

Cofunctions - Complementary functions

$$S_{11} A = cos(90-A)$$

 $S_{ec} A = csc(90-A)$
 $tan A = cot(90-A)$

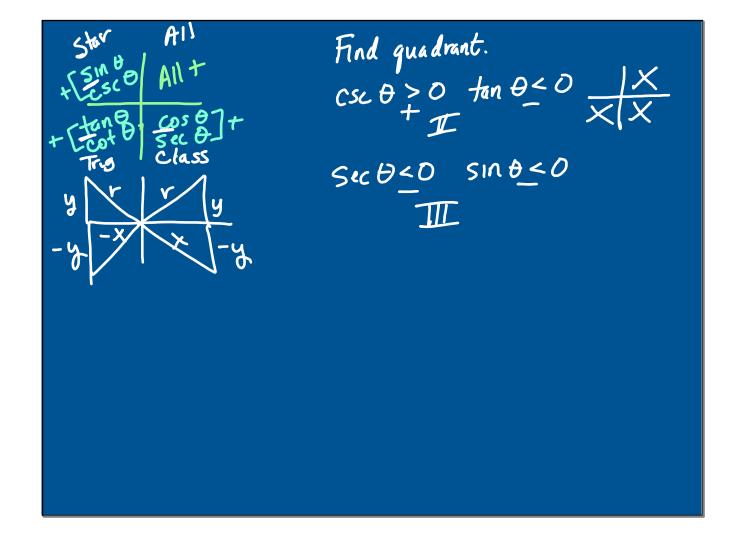
Sin 60° = cos 23° Sin 60° = cos 30°

With in terms of 1ts compl. func:

$$CSC 70^\circ = SEC 20^\circ$$
 $69^\circ 60'$
 $-53^\circ 10'$
 $-53^\circ 10'$

= Sin T/3

$$\frac{y}{x} = \frac{y}{y} = \frac{y$$



If
$$\cos \theta = -\frac{3}{4} + \cot \theta > 0$$

find $\csc \theta$.

Draw a picture of the Δ !

$$\cos \theta = \frac{r}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{3}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{3}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{3}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{3}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{3}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{3}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{3}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{3}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{3}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{3}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{4} + \cot \theta > 0$$

$$\cos \theta = \frac{7}{$$

Nogative angles

$$\cos \theta = \frac{y}{x}$$
 $\cos(\theta) = \frac{y}{x}$
 $\sin(-\theta) = -\sin\theta$
 $\cot(-\theta) = -\cot\theta$
 $\tan \theta = \frac{y}{x}$
 $\tan(-\theta) = -\frac{y}{x}$

$$Sin\theta = -\frac{1}{5}$$

$$Sin(-\theta) = +\frac{1}{5}$$

$$CSC(-\theta) = -\frac{5}{3}$$

$$CSC(\theta) = -\frac{25}{3}$$

$$Sec(\theta) = -\frac{25}{7}$$

$$COS(-\theta) = -\frac{7}{25}$$

