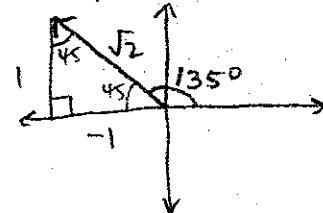


Angles in Standard Position:

NAME Key

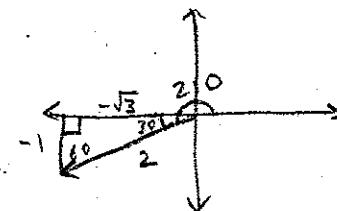
- 1) Find the trigonometric function values for -945° . Include values and appropriate signs.

$$\begin{aligned} -945^\circ + 360 + 360 + 360 &= 135^\circ \\ \sin 135^\circ &= \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2} \quad \csc 135^\circ = \sqrt{2} \\ \cos 135^\circ &= -\frac{1}{\sqrt{2}} = -\frac{\sqrt{2}}{2} \quad \sec 135^\circ = -\sqrt{2} \\ \tan 135^\circ &= -1 \quad \cot 135^\circ = -1 \end{aligned}$$



- 2) Find the trigonometric function values for 570° . Include values and appropriate signs.

$$\begin{aligned} 570^\circ &= 210^\circ \\ \sin 210^\circ &= -\frac{1}{2} \quad \csc 210^\circ = -2 \\ \cos 210^\circ &= -\frac{\sqrt{3}}{2} \quad \sec 210^\circ = -\frac{2}{\sqrt{3}} = -\frac{2\sqrt{3}}{3} \\ \tan 210^\circ &= \frac{1}{\sqrt{3}} = \frac{\sqrt{3}}{3} \quad \cot 210^\circ = \sqrt{3} \end{aligned}$$



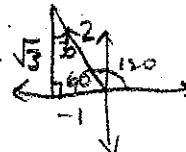
- 3) Find the following, if they exist.

a) $\sin 765^\circ$

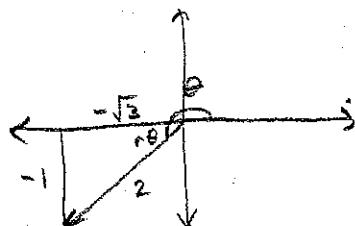
$$\sin 45^\circ = \frac{1}{\sqrt{2}} = \frac{\sqrt{2}}{2}$$

b) $\tan -600^\circ$

$$\tan 120^\circ = -\sqrt{3}$$



- 4) Given that $\sin \theta = -\frac{1}{2}$, find the measures of θ between 0° and 360° .



$$r\theta = 30^\circ$$

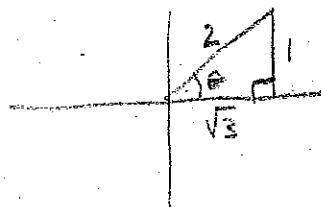
$$\theta = 210^\circ, 330^\circ$$

- 5) Given that $\tan \theta = \frac{\sqrt{3}}{3}$, find the measures of θ between 0° and 360° .

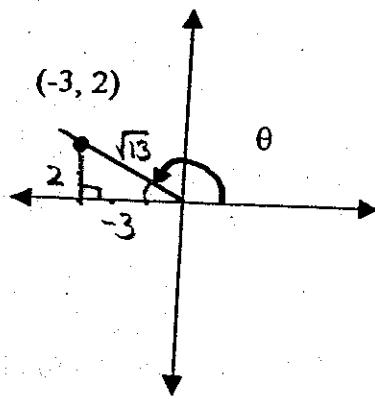
$$\frac{\sqrt{3}}{3} = \frac{1}{\sqrt{3}}$$

$$\tan \theta = \frac{1}{\sqrt{3}}$$

$$\theta = 30^\circ, 210^\circ$$



6) Find the 6 trig. functions for the following angle. Then find the measure of θ .



$$\sin \theta = \frac{2}{\sqrt{13}} = \frac{2\sqrt{13}}{13} \quad \csc \theta = \frac{\sqrt{13}}{2}$$

$$\cos \theta = \frac{-3}{\sqrt{13}} = \frac{-3\sqrt{13}}{13} \quad \sec \theta = -\frac{\sqrt{13}}{3}$$

$$\tan \theta = \frac{-2}{3} \quad \cot \theta = -\frac{3}{2}$$

$$\boxed{\theta = 146.3^\circ}$$