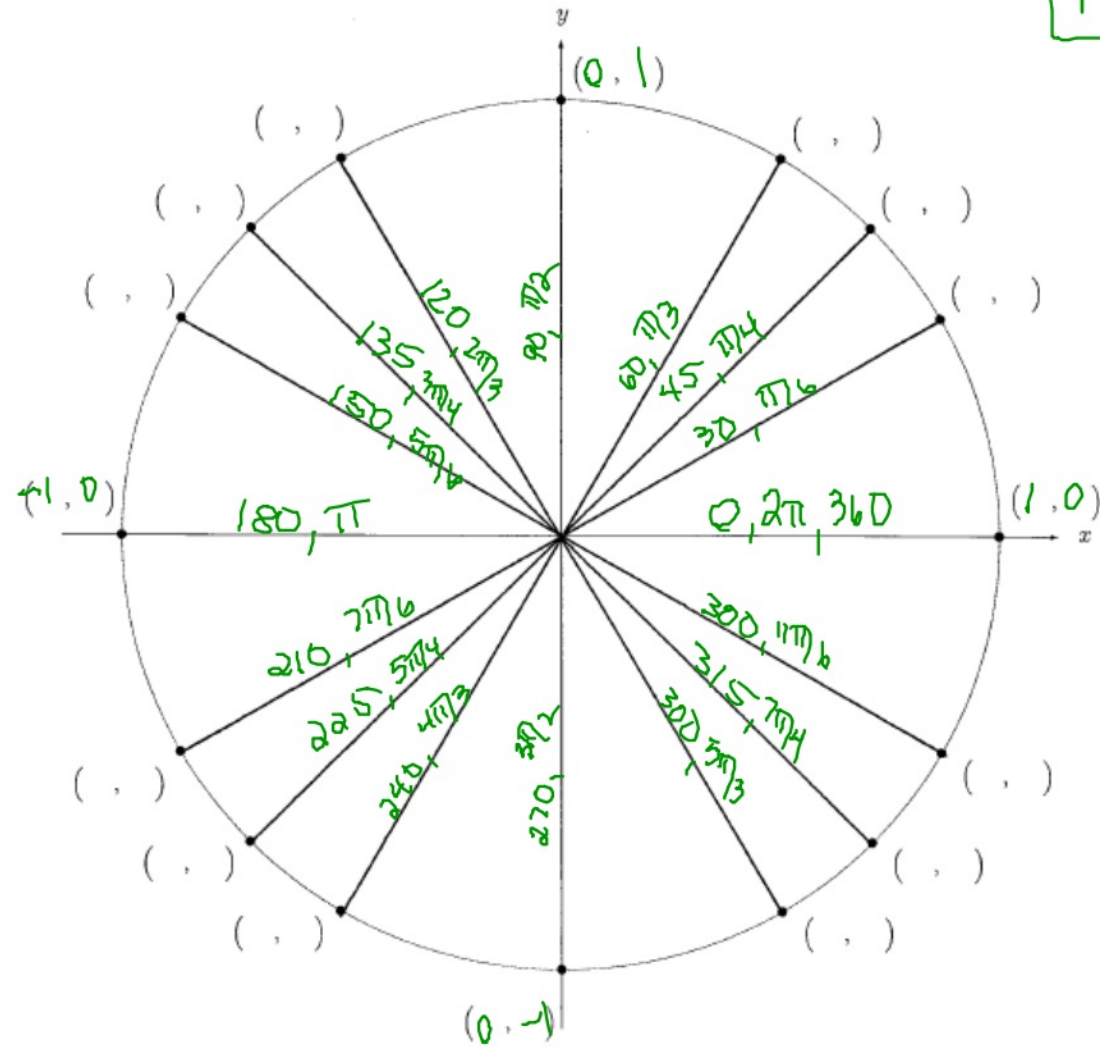
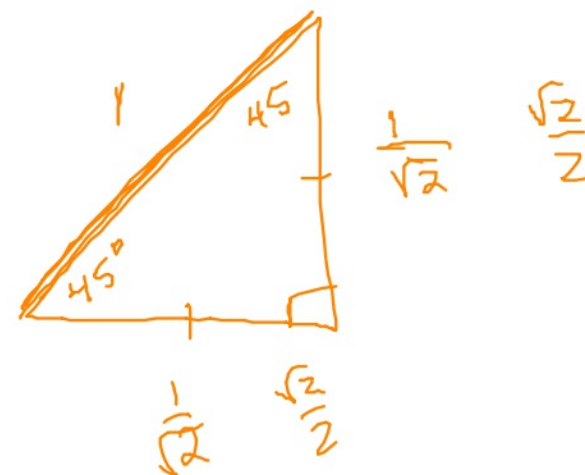
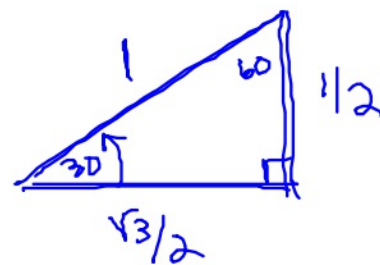
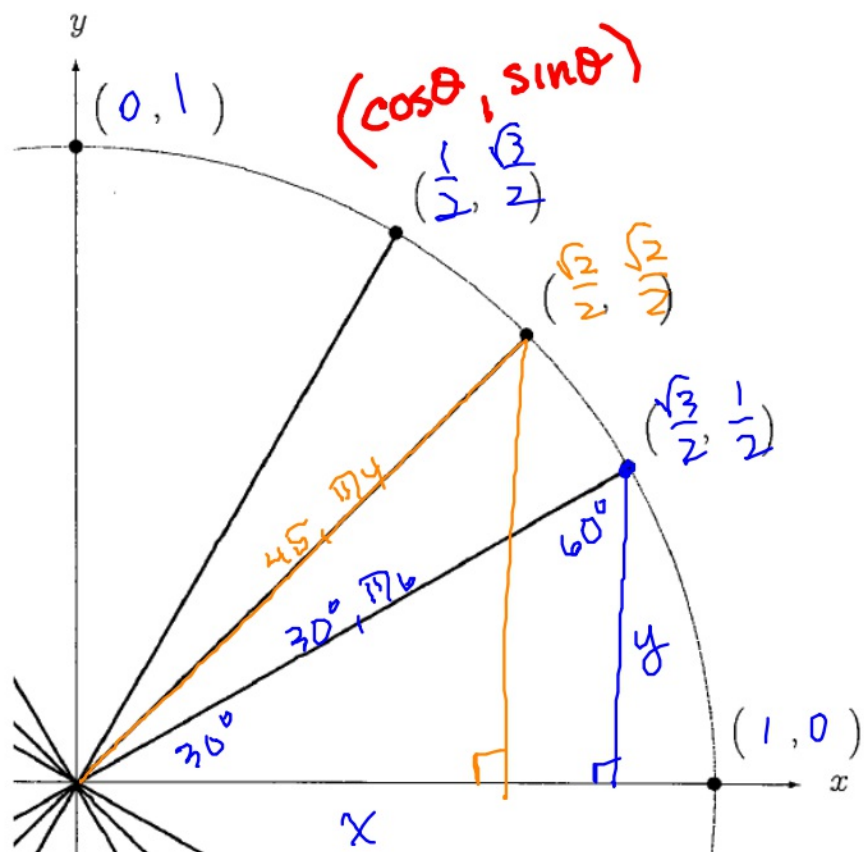


$$r = 1$$





## Using unit circle

$$\sin \theta = \frac{y}{1} = y$$

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

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

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

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

$$\csc \theta = \frac{1}{y}$$

$$\sin \pi/6 = \underline{1/2}$$

$$\cos 5\pi/4 = \underline{-\frac{\sqrt{2}}{2}}$$

$$\tan 7\pi/6 = \frac{+1/2}{+\sqrt{3}/2} = \frac{1}{\sqrt{3}} = \underline{\frac{\sqrt{3}}{3}}$$

$$\cot \frac{3\pi}{2} = \frac{0}{-1} = 0$$

$$\tan 3\pi/2 = \frac{-1}{0} = \phi \quad \text{DNE}$$

$$\sec 7\pi/4 = \frac{2/\sqrt{2}}{\sqrt{2}} = \frac{2\sqrt{2}}{2} = \sqrt{2}$$

$$\csc -\frac{2\pi}{3} = \frac{-2/\sqrt{3}}{\sqrt{3}} = \underline{-\frac{2\sqrt{3}}{3}}$$