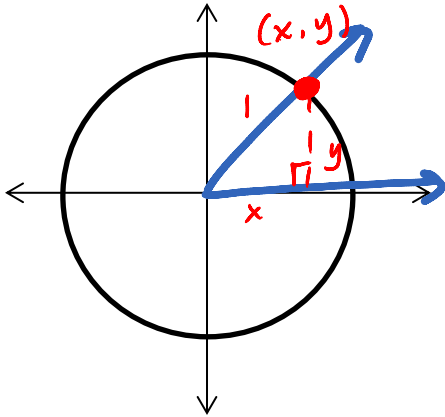


The Unit Circle (defined):



$$\sin \theta = y$$

$$\cos \theta = x$$

$$\tan \theta = \frac{y}{x} \left(\frac{\sin}{\cos} \right)$$

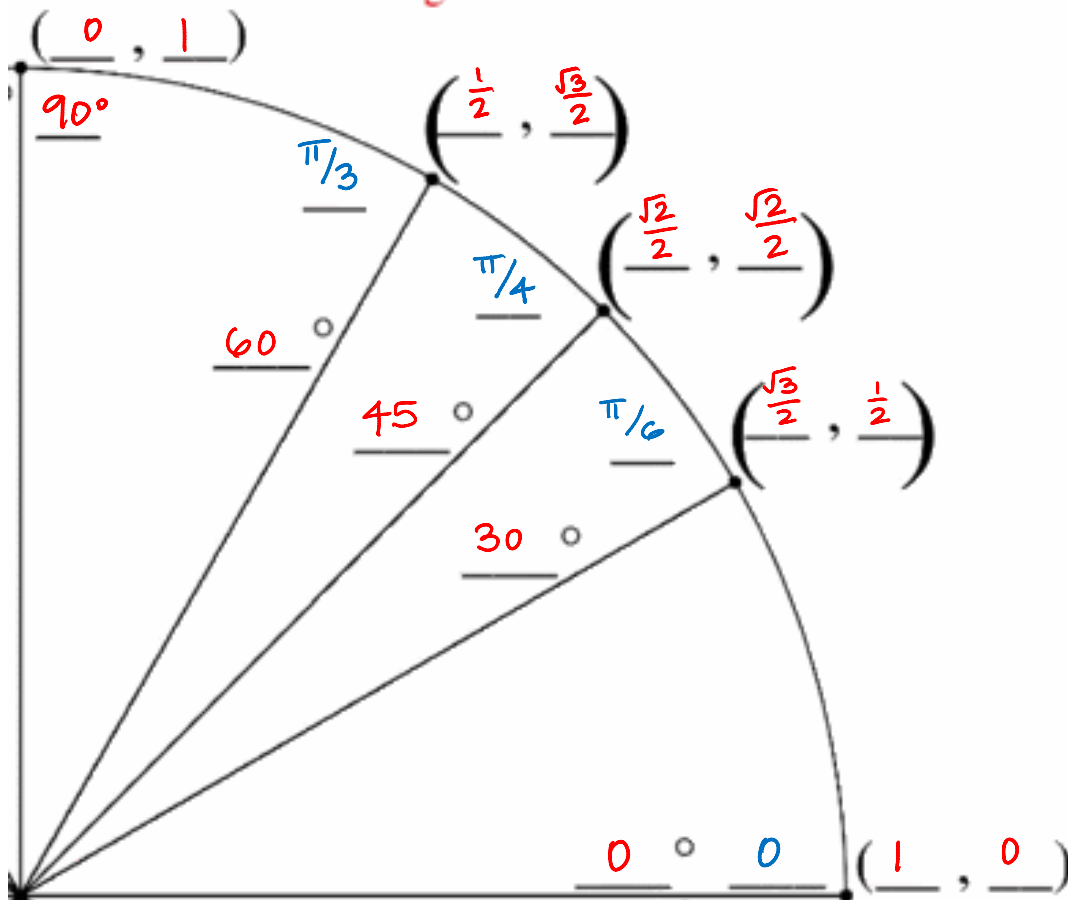
$$\csc \theta = \frac{1}{y}$$

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

$$\cot \theta = \frac{x}{y} \left(\frac{\cos}{\sin} \right)$$

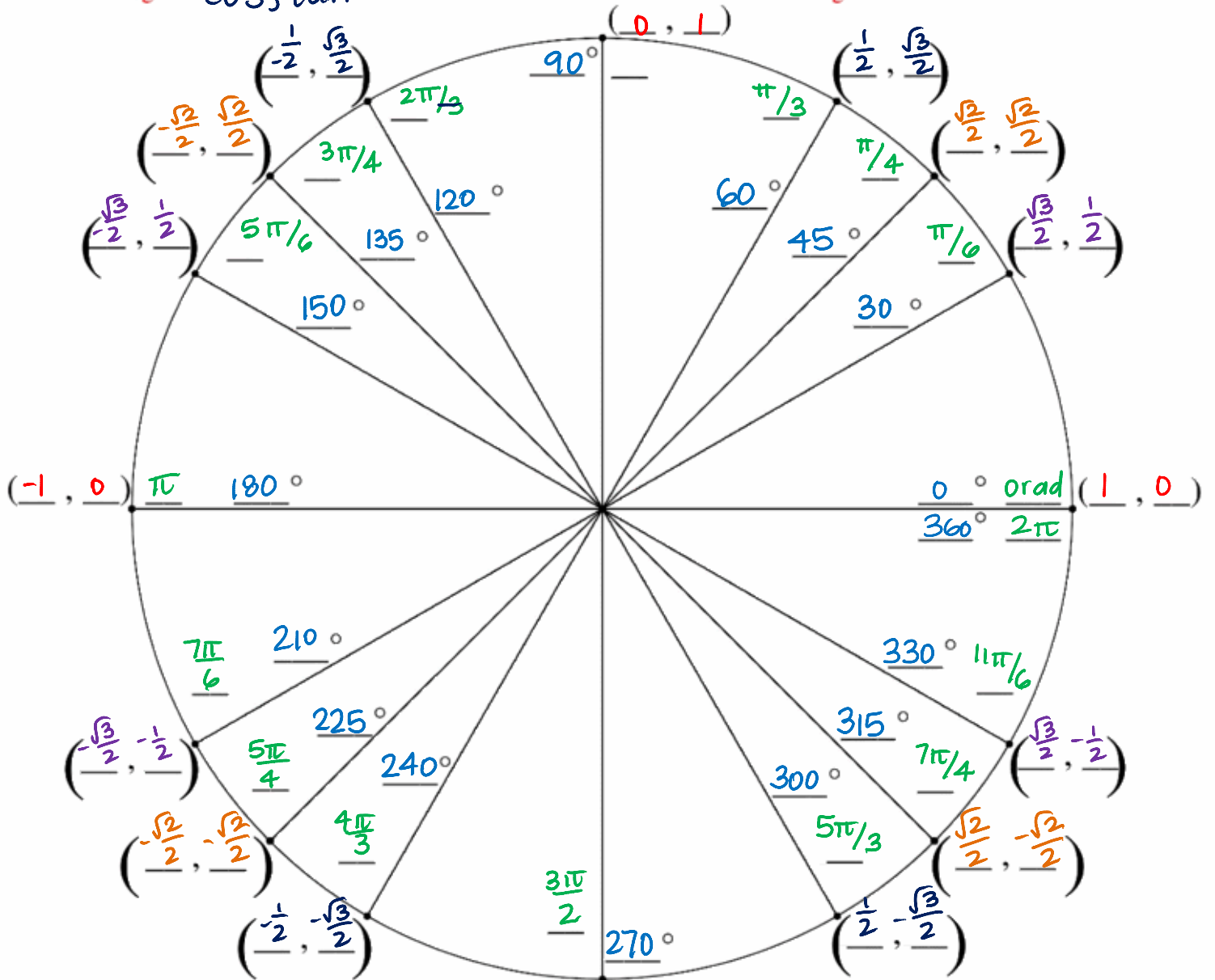
Let's just focus on the first quadrant....

Positive: ALL (sin, cos, tan)
Negative:



Positive: \sin
Negative: \cos, \tan

Positive: ALL (\sin, \cos, \tan)
Negative:



Positive: \tan
Negative: \sin, \cos

Positive: \cos
Negative: \sin, \tan