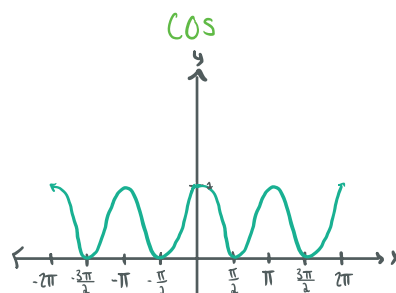
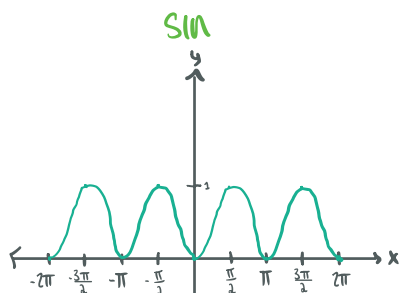
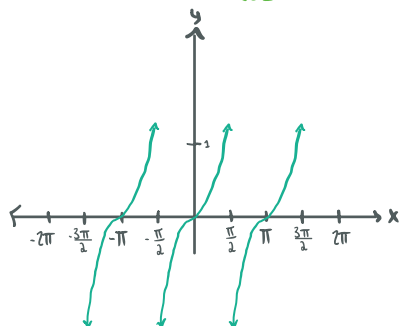


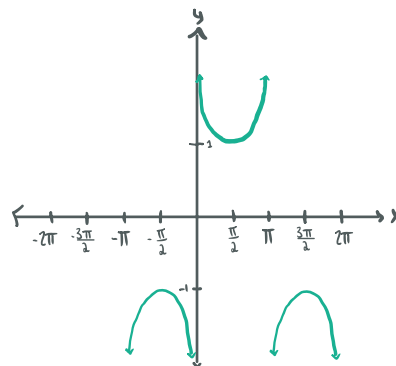
Trigonometric Functions



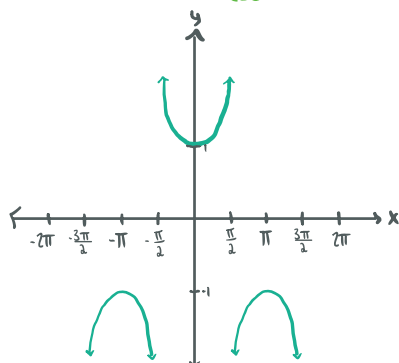
$$\tan = \frac{\sin}{\cos}$$



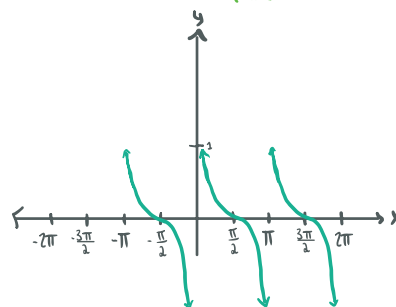
$$\csc = \frac{1}{\sin}$$



$$\sec = \frac{1}{\cos}$$



$$\cot = \frac{1}{\tan}$$



Note: None of these functions are injective (Recall: Horizontal line test)

\therefore They do not have inverses

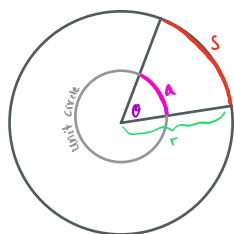
But, if we restrict their domains we can derive inverse trig functions:
 \cos^{-1} , \sin^{-1} , \tan^{-1} , etc...

Translations:

$$y = a \cdot f(b(x+c)) + d$$

Vertical Stretch
Horizontal Stretch
Horizontal Shift
Vertical Shift

Radian Measure (a)



$$\theta = a = \frac{s}{r}$$

Convert degrees to radians