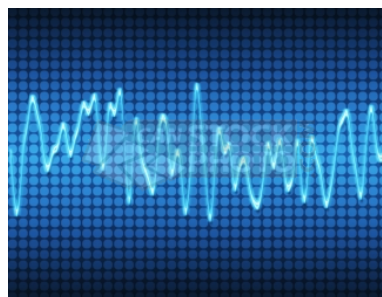


MHF 4UI UNIT 5

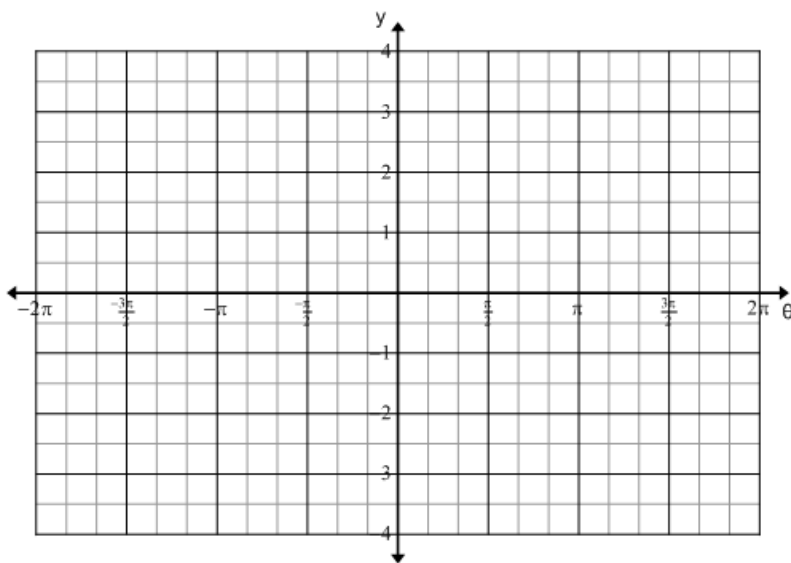
Trigonometric Functions

Day 3 - Graphing Trig Functions (Part I)

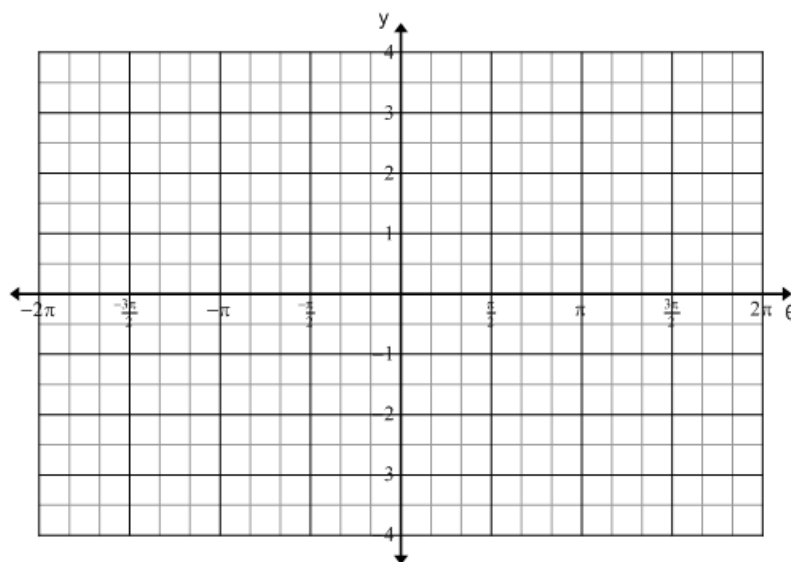


Basic Graphs:

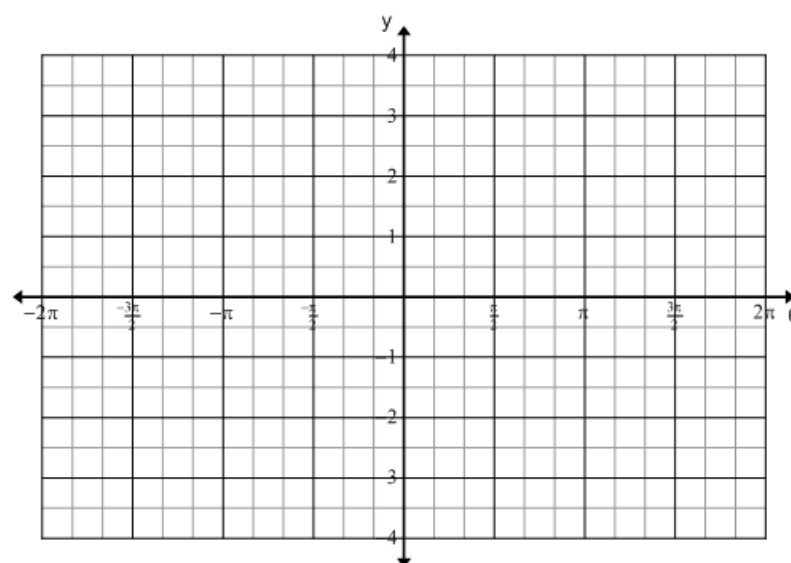
$$y = \sin \theta$$



$$y = \cos \theta$$



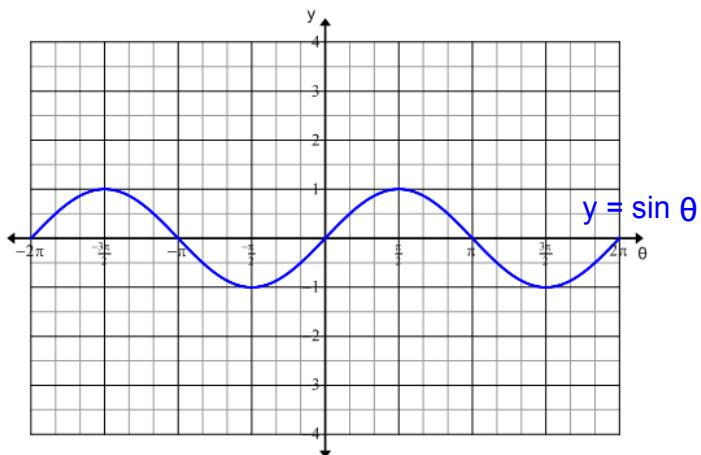
$$y = \tan \theta$$



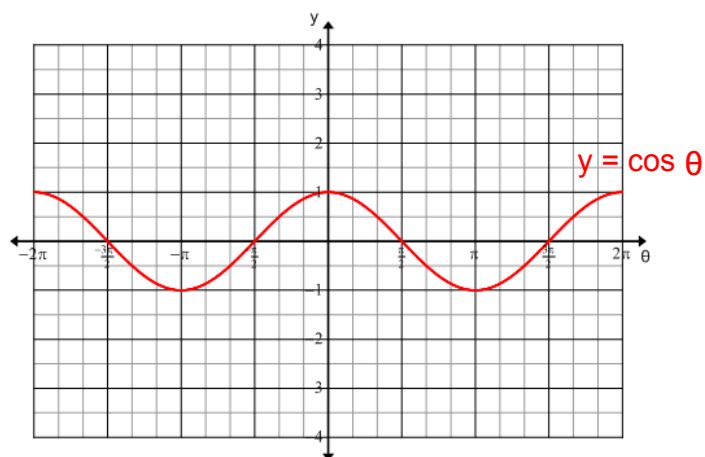
Inverse Graphs:

** Remember for an inverse we switch the x and y values

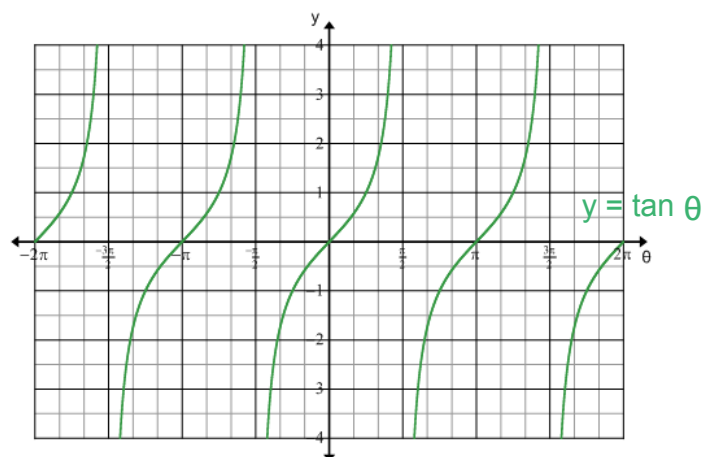
$$y = \sin^{-1} \theta$$



$$y = \cos^{-1} \theta$$

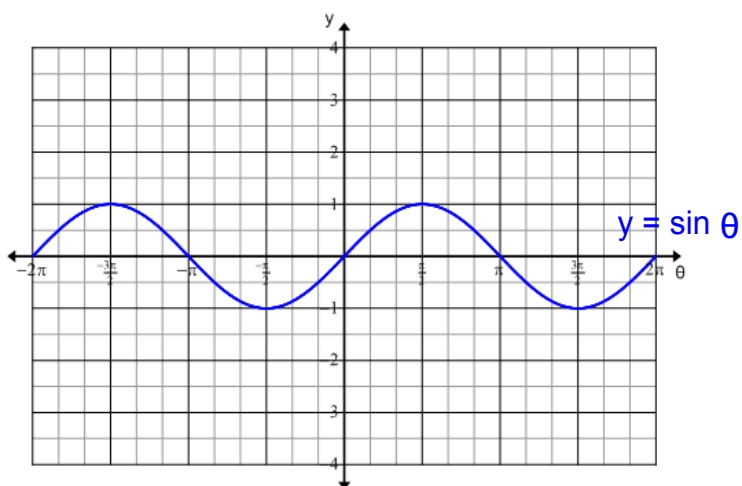


$$y = \tan^{-1} \theta$$

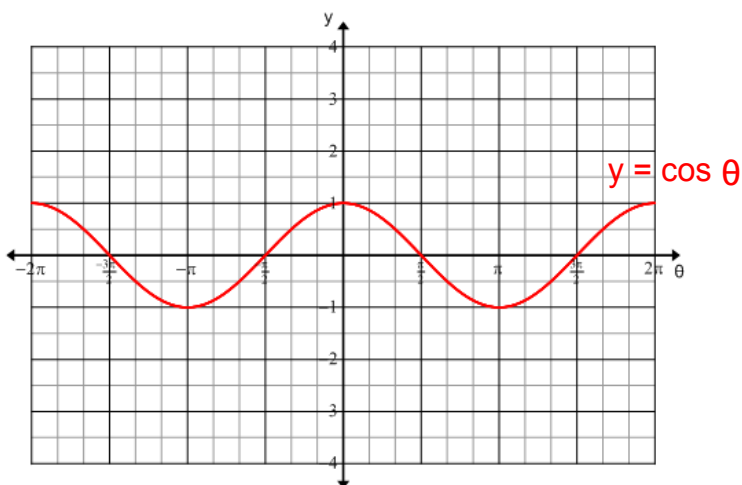


Reciprocal Graphs:

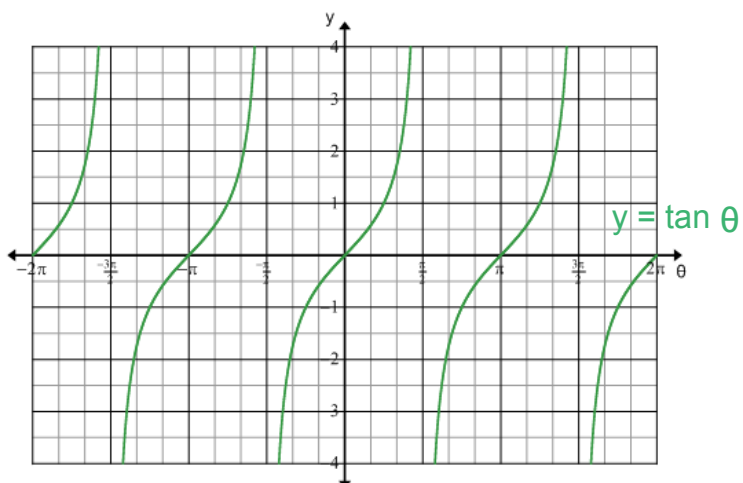
$$y = \csc \theta$$



$$y = \sec \theta$$



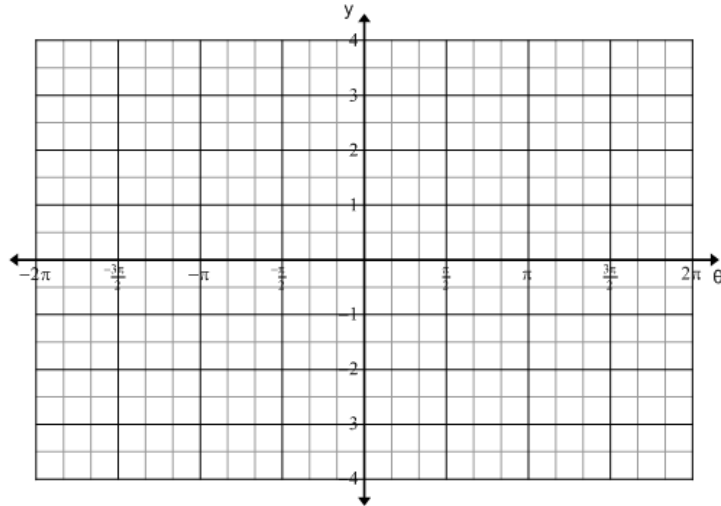
$$y = \cot \theta$$



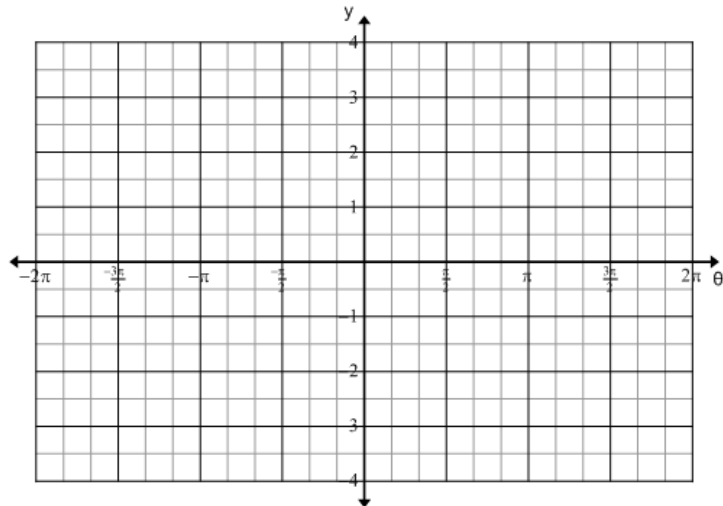
Transformations:

Example 1: Graph two complete cycle of each of the following curves (in radians):

$$y = \sin \theta + 1$$



$$y = -3\cos\theta$$



$$y = -2\sin \theta - 1$$

