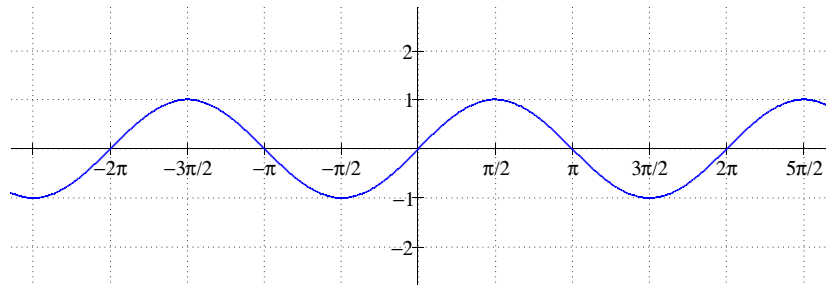
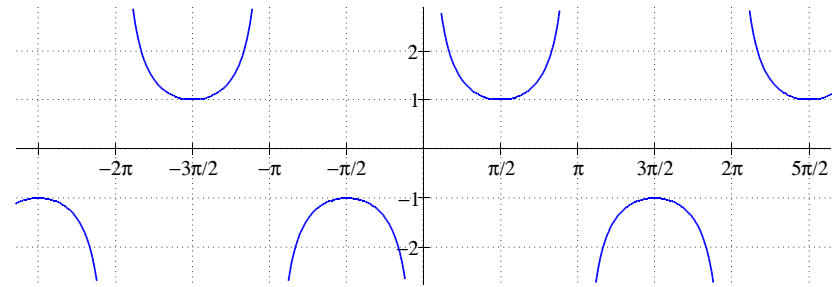


# Graphs of the Basic Trig Functions



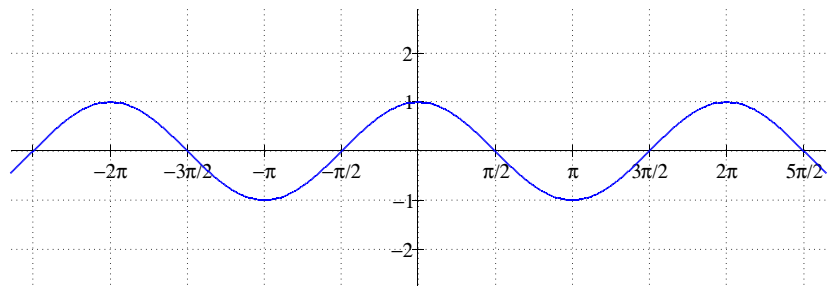
$$y = \sin \theta$$

Domain:  $(-\infty, \infty)$  Range:  $[-1, 1]$  Period:  $2\pi$



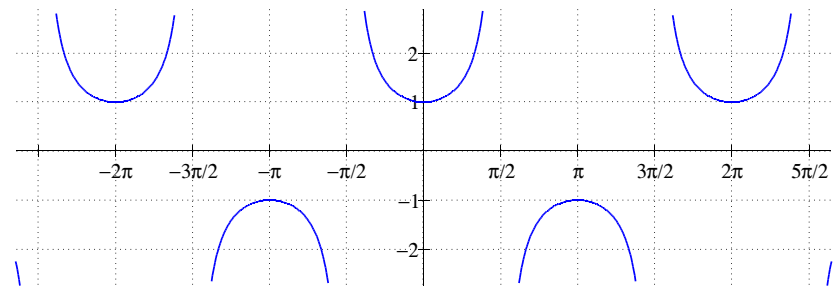
$$y = \csc \theta$$

Domain: All real numbers except multiples of  $\pi$  Range:  $(-\infty, -1] \cup [1, \infty)$  Period:  $2\pi$



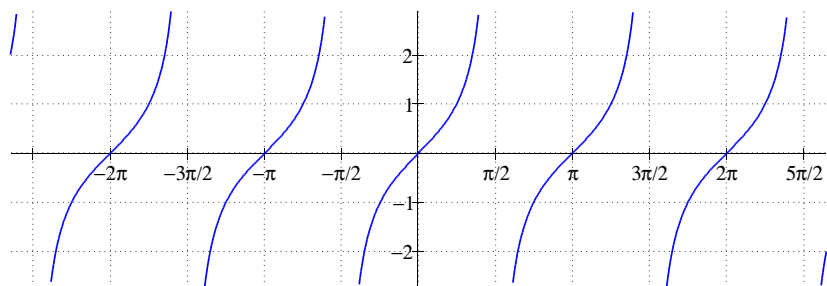
$$y = \cos \theta$$

Domain:  $(-\infty, \infty)$  Range:  $[-1, 1]$  Period:  $2\pi$



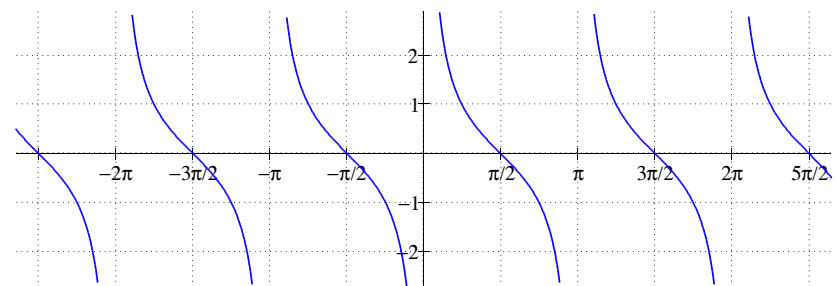
$$y = \sec \theta$$

Domain: All real numbers except odd multiples of  $\pi/2$  Range:  $(-\infty, -1] \cup [1, \infty)$  Period:  $2\pi$



$$y = \tan \theta$$

Domain: All real numbers except odd multiples of  $\pi/2$  Range:  $(-\infty, \infty)$  Period:  $\pi$



$$y = \cot \theta$$

Domain: All real numbers except multiples of  $\pi$  Range:  $(-\infty, \infty)$  Period:  $\pi$