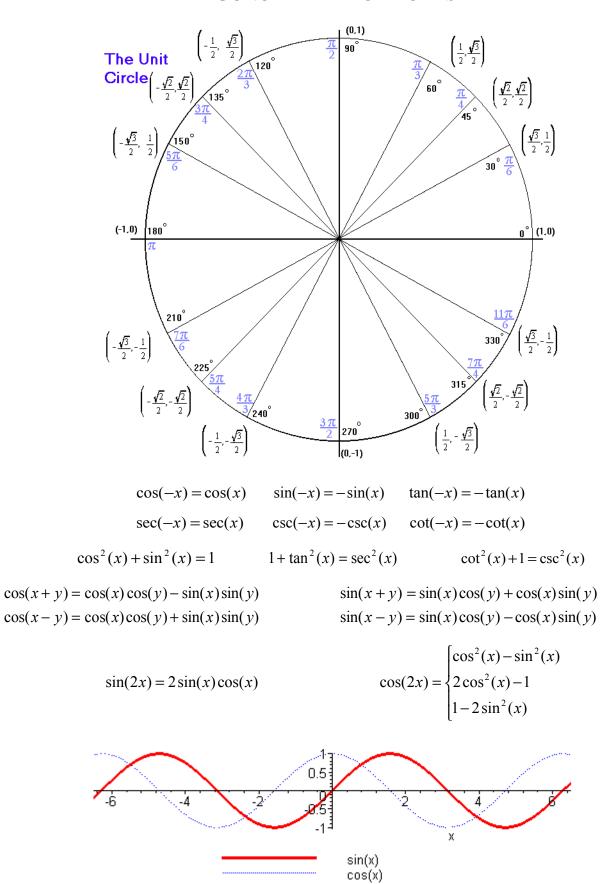
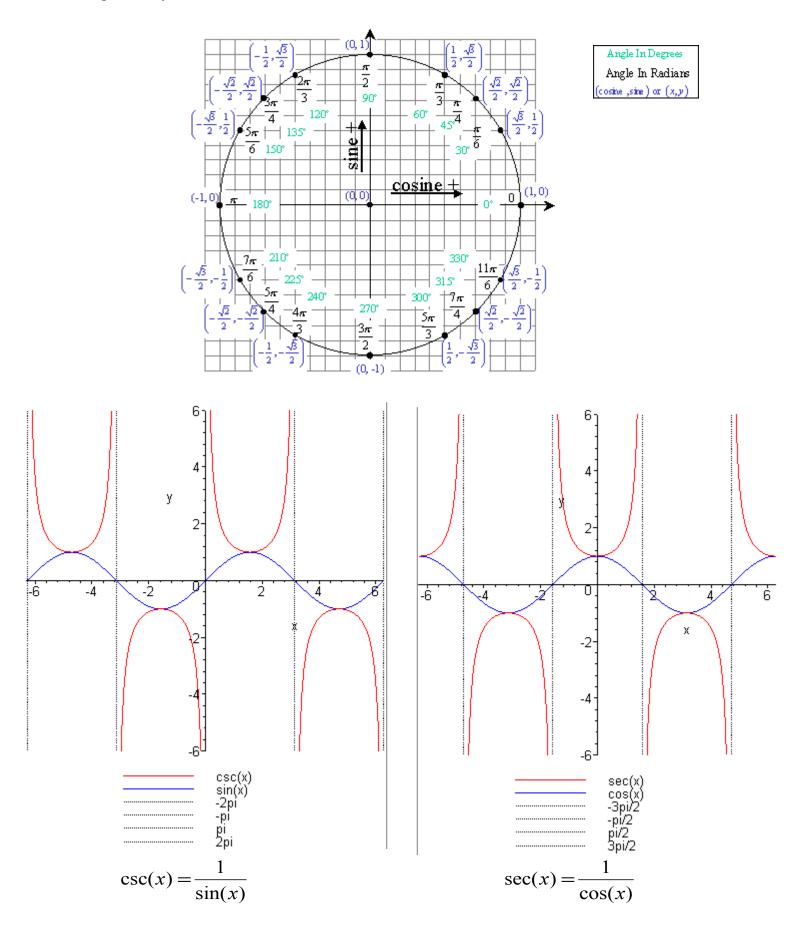
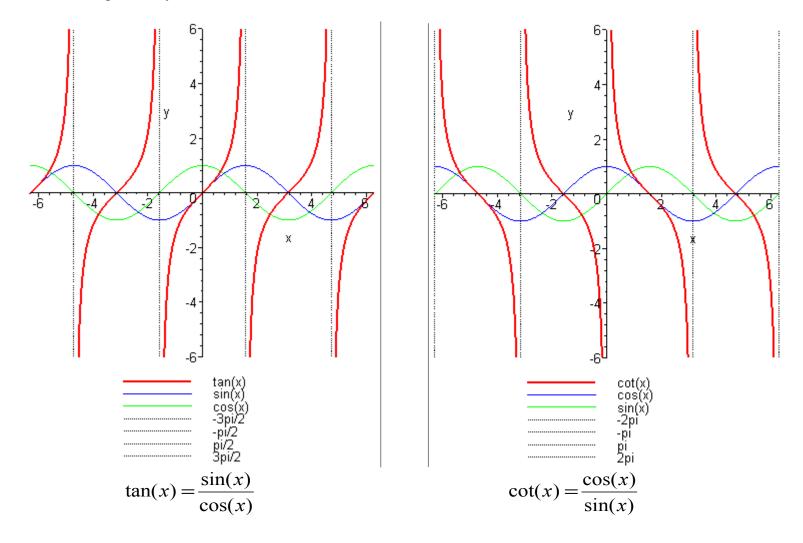
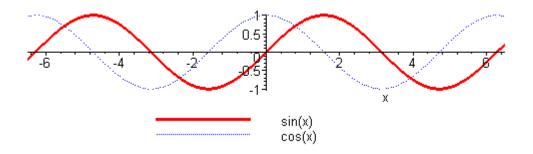
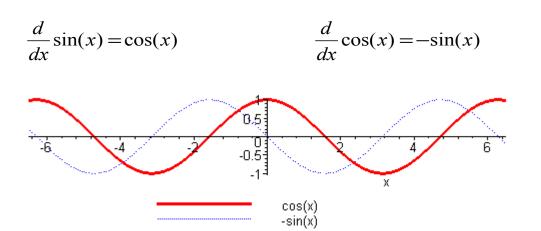
## TRIGONOMETRY FORMULAS

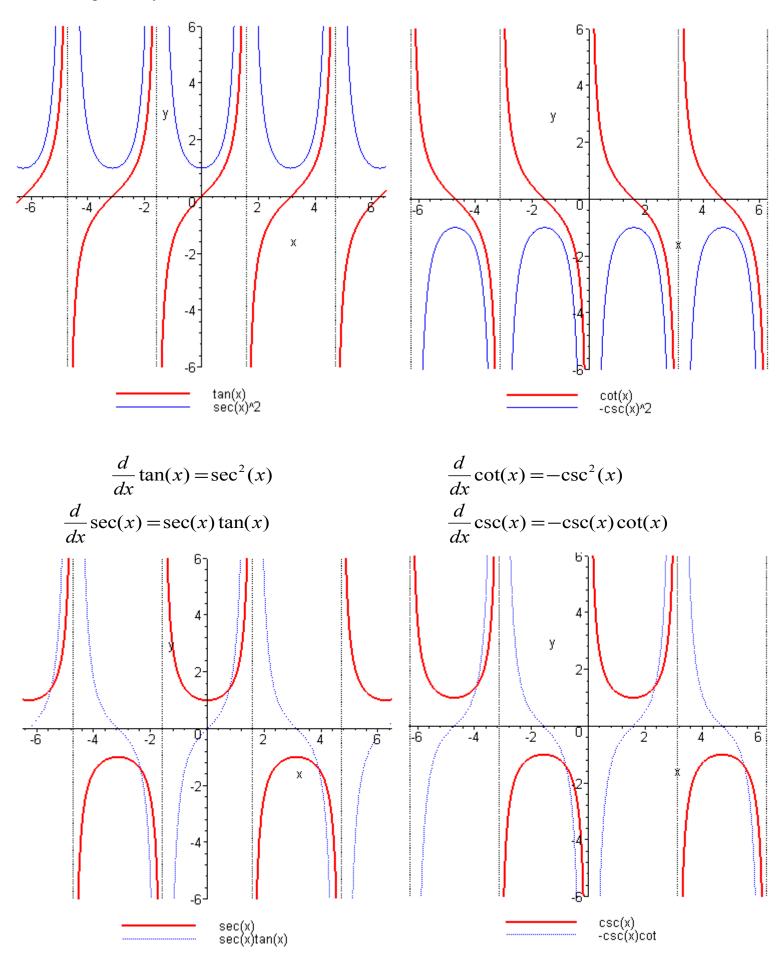


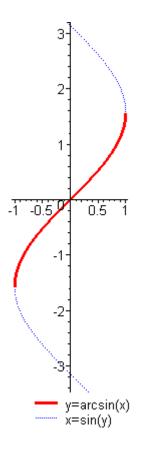


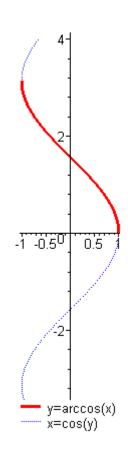








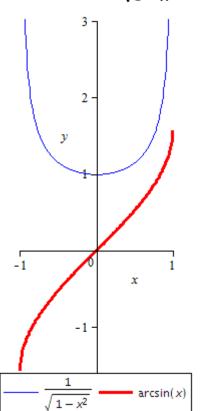




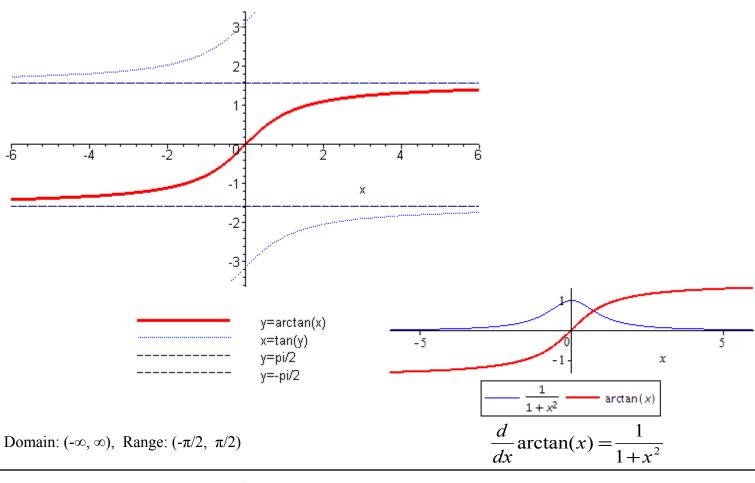
Domain: [-1,1], Range:  $[-\pi/2, \pi/2]$ 

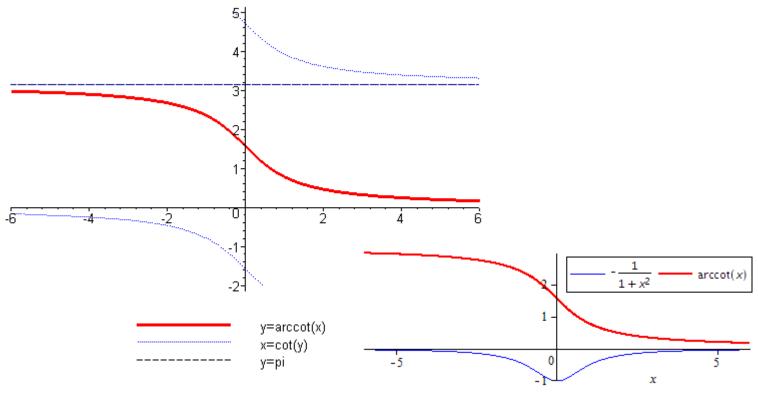
$$\arccos(x) = \pi/2 - \arcsin(x)$$
; Domain: [-1,1], Range: [0,  $\pi$ ]

$$\frac{d}{dx}\arcsin(x) = \frac{1}{\sqrt{1 - x^2}}$$



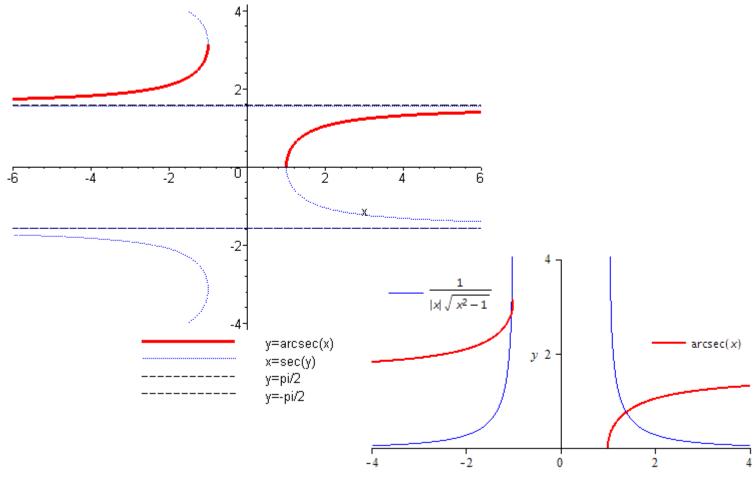
$$\frac{1}{\sqrt{1-x^2}} - \frac{1}{\sqrt{1-x^2}} - \arccos(x)$$





$$\operatorname{arccot}(x) = \pi/2 - \arctan(x);$$
 Domain:  $(-\infty, \infty)$ , Range:  $(0, \pi)$ 

$$\frac{d}{dx} \operatorname{arc} \cot(x) = \frac{-1}{1+x^2}$$



arcsec(x) = arccos(1/x), Domain:  $(-\infty, -1] \cup [1, \infty)$ , Range:  $[0, \pi/2) \cup (\pi/2, \pi]$ ;  $\frac{d}{dx} arc sec(x) = \frac{1}{|x| \sqrt{x^2 - 1}}$ 

 $\overline{\arccos(x) = \arcsin(1/x), \text{ Domain: } (-\infty, -1] \cup [1, \infty), \text{ Range: } [-\pi/2, 0) \cup (0, \pi/2]; \quad \frac{d}{dx} \operatorname{arc } \csc(x) = \frac{-1}{|x|\sqrt{x^2 - 1}}$ 

