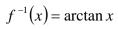
3/7/2009

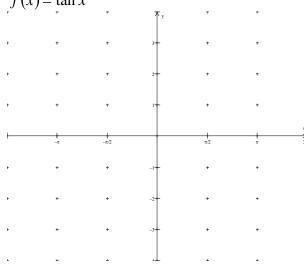
Name____

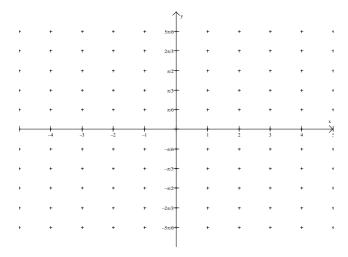
Derivatives of Inverse Trigonometric Functions

$$\frac{d}{dx} \left[\arctan x \right] =$$

 $f(x) = \tan x$





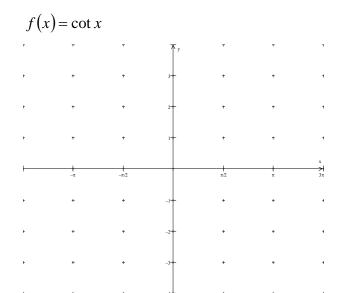


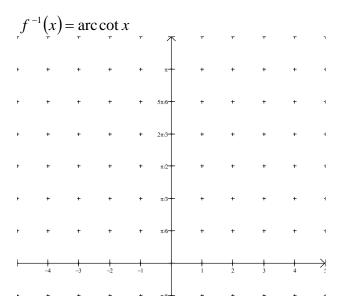
 $y = \arctan x$

Sketch of guess for $\frac{d}{dx}[\arctan x]$

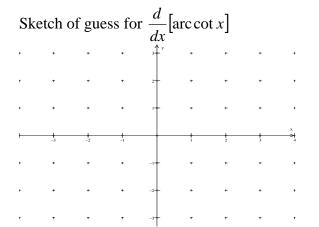
Sketch of $\frac{d}{dx}$ [arctan x]

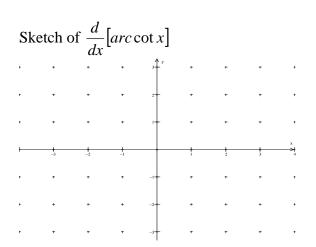
$$\frac{d}{dx} \left[arc \cot x \right] =$$



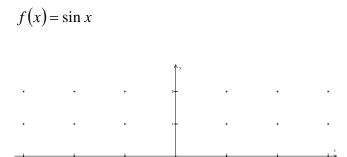


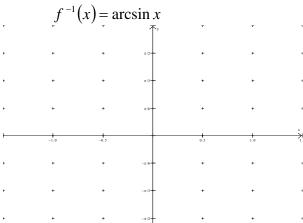
 $y = \operatorname{arc} \cot x$



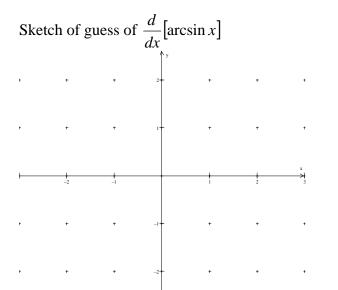


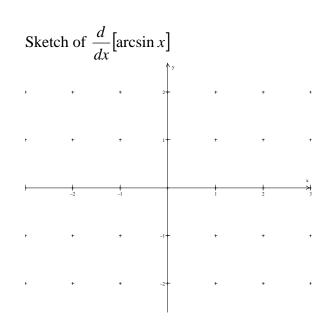
$$\frac{d}{dx}[\arcsin x] =$$





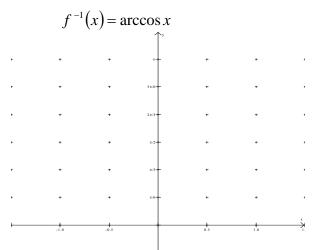
 $y = \arcsin x$



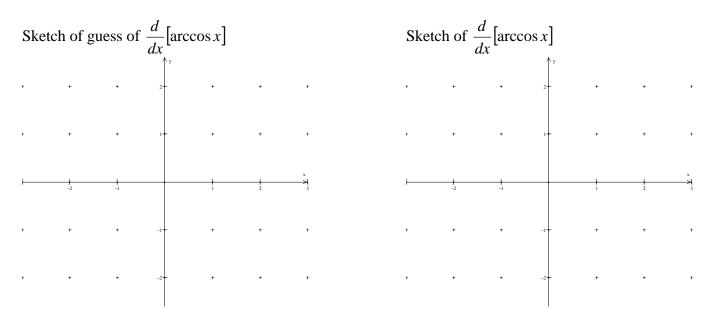


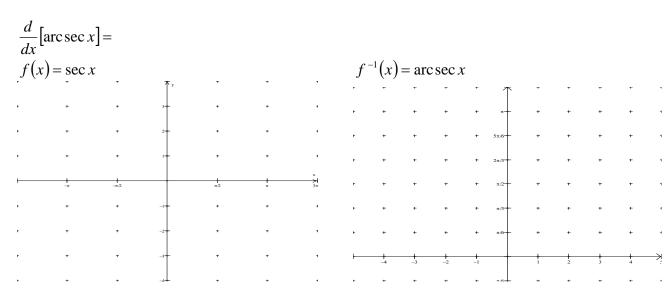
$$\frac{d}{dx}[\arccos x] =$$

 $f(x) = \cos x$

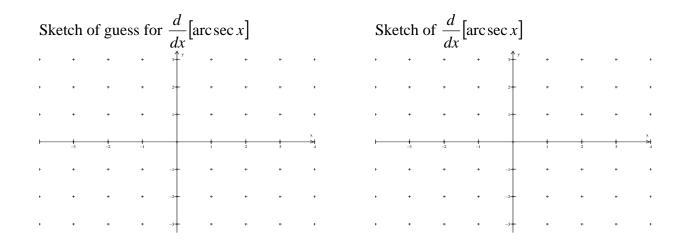


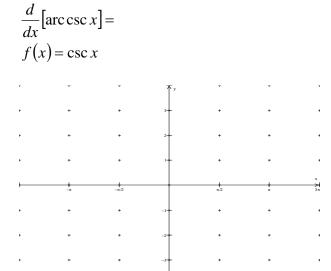
 $y = \arccos x$

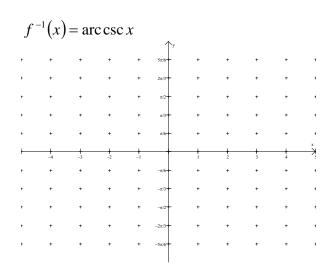




 $y = \operatorname{arc} \sec x$







 $y = \operatorname{arc} \operatorname{csc} x$

