Derivatives of Trivence Trig Function  

$$\frac{d}{dx} \begin{bmatrix} arcnin x \end{bmatrix} = \frac{1}{\sqrt{1 - x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 - x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 - x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 - x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 - x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac{1}{\sqrt{1 + x^2}} \\ \frac{d}{dx} \begin{bmatrix} xin^{-1} x \end{bmatrix} = \frac$$

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$$E_{y} = con^{-2} \left( \frac{3x - 1}{x - 1} \right)$$

$$\frac{d_{y}}{dx} = \frac{-3}{\sqrt{1 - (3x - 1)^{2}}}$$

$$\frac{d_{y}}{dx} = \frac{-3}{\sqrt{1 - (3x - 1)^{2}}}$$

$$\frac{d_{y}}{dx} = con^{-1} \left( Shuff \right) = \frac{-(Shuff)^{2}}{\sqrt{1 - (Shuff)^{2}}}$$

$$F = g \cdot g = x^{2} \cdot Ain^{-1} x + \frac{1}{\sqrt{1 - x^{2}}} \cdot \left[ \frac{x^{2}}{\sqrt{1 - x^{2}}} \right]$$

$$= \left[ \frac{2x \cdot Ain^{-1} x + \frac{x^{2}}{\sqrt{1 - x^{2}}} \right]$$

An application: Television camera is 2000 ft away from the launching pad of a nocket 2: height of rocket ( >c in changing ). Find the rate of change of G (angle of elevation) of the camera when the rocket in 5000 ft when the rocket in 5000 ft away from the camera Camera lanching pad 2000 ft

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