

$$y = \frac{1}{(x^2 - 1)(x^2 + x + 1)}$$

$$y' = \frac{\left(\frac{d}{dx}\right)(1)}{\left(\frac{d}{dx}\right)(x^2 - 1)(x^2 + x + 1)}$$

$$y' = \frac{d}{dx} \left(\frac{1}{x^4 + x^3 - x - 1} \right)$$

$$y' = \frac{4x^3 + 3x^2 - 1}{(x^4 + x^3 - x - 1)^2}$$