37.) $\frac{d}{dx}\left[\frac{2x^2-3x+1}{x^3+2x^2-8x-18}\right] = \left(\frac{\frac{d}{dx}[2x^2-3x+1][x^3+2x^2-8x-18] - [2x^2-3x+1]\frac{d}{dx}[x^3+2x^2-8x-18]}{(x^3+2x^2-8x-18)^2}\right)$

$= \frac{[4x-3][x^3+2x^2-8x-18] - [2x^2-3x+1][3x^2+4x-8]}{(x^3+2x^2-8x-18)^2}$

$= \frac{[4x^4+8x^3-32x^2-72x-3x^3-6x^2+24x+54] - [6x^4+8x^3-16x^2-9x^3-12x^2-24x+3x^2+4x-8]}{4x^4+5x^3-38x^2-48x+54 \qquad\qquad 6x^4-x^3-25x^2-20x-8}$

$\frac{[4x^4+5x^3-38x^2+48x+54] - [6x^4-x^3-25x^2-20x-8]}{(x^3+2x^2-8x-18)^2}$

$\frac{-2x^4+6x^3-13x^2-76x+62}{(-x^3-2x^2+8x+18)^2} = \frac{-2x^4+6x^3-13x^2-76x+62}{(-x^3-2x^2+8x+18)^2}$