

○ *PROBLEM 1* : Differentiate $y = \frac{2}{x+1}$.

○ *PROBLEM 2* : Differentiate $y = \frac{x^2}{3x-1}$.

○ *PROBLEM 3* : Differentiate $f(x) = \frac{4x^3 - 7x}{5x^2 + 2}$.

○ *PROBLEM 4* : Differentiate $y = \frac{4\sin x}{2x + \cos x}$.

○ *PROBLEM 5* : Differentiate $y = \frac{7x^2}{4e^x - x}$.

○ *PROBLEM 6* : Differentiate $g(x) = \frac{1 + \ln x}{x^2 - \ln x}$.