$u' = Dx^3 | u = \frac{24}{4}$ $v = \ln x | v' = \frac{1}{x}$

Controls 3 such

$$\lim_{N\to 1} \frac{x^3 + x^2 - 1}{2x^2 - 1} = \lim_{N\to 2} \frac{x^3}{7x^3} = 7$$

$$\lim_{N\to 1} \frac{x^3 + x^2 - 1}{(x-1)(x+2)} = \frac{4}{100} = -\infty$$

$$\lim_{N\to 1} \frac{x^3}{(x+1)} = \lim_{N\to 1} \frac{x+1}{x+5} = \frac{1}{3}$$

$$\int_{0}^{2} \frac{1}{x^3} \frac{1}{x$$