

NOTE CHECK → 2.6

$$\text{Ex 1: } \frac{d}{dx} [(3x^2 - 4)^{100}]$$

$$y = \quad , \quad u =$$

$$\frac{dy}{du} = \quad , \quad \frac{du}{dx} =$$

$$\frac{dy}{dx} [(3x^2 - 4)^{100}] =$$

$$\frac{d}{dx} [f(x)^n] =$$

$$\text{Ex 2: } y = (x^3 - 2x + 33)^4$$

$$\frac{dy}{dx} =$$

$$\text{Ex 3: } y = (2x-3)(x^2-5)^3$$

$$\text{Ex 4: } y = \sqrt{5x^2-1} \rightarrow y = (\quad)$$

$$\text{Ex 6: } \frac{d}{dx} [f(g(x))] =$$

$$y = \sin(4x^5)$$

$$\text{Ex 9: } \frac{d}{dx} \left[\sqrt{x^3 + \csc(x^3)} \right]$$

$$\text{Ex 10: } \frac{d}{dx} \left[\left[3 + x^2 \cot(x^2) \right]^{-3} \right]$$