

DERIVATIVES (EXPONENTIAL FUNCTIONS DIFFERENTIATION)

$$y = 7(x^2 - x) \quad \ln = \text{NATURAL LOG}$$

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

$$y = 7x^2 - x$$

$$v(x) = x^2$$

$$v(x) = x^2 - x$$

$$v'(x) = 2x - 1$$

$$dy = dv \cdot dx$$

$$dx = dv \cdot dx$$

$$+ 7x^2 + y = 7x^2 - x + 7x^2$$

$$\frac{dy}{dx} = (\ln 7) \cdot 7^{(x^2 - x)} \cdot 2x - 1$$