

# Handwritten Notes

1.  $\frac{1}{x^2} = x^{-2}$

$$\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$$

2.  $\frac{d}{dx} \ln(x) = \frac{1}{x}$

$$\frac{d}{dx} \ln(x^2) = \frac{1}{x^2} \cdot 2x = \frac{2}{x}$$