

- 7.5. $\frac{1}{x^2} = x^{-2}$ $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$ $\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$
- 7.6. $\frac{d}{dx} \ln x = \frac{1}{x}$ $\frac{d}{dx} \ln \frac{1}{x} = \frac{d}{dx} \ln x^{-1} = -\frac{1}{x}$
- 7.7. $\frac{d}{dx} \ln x = \frac{1}{x}$ $\frac{d}{dx} \ln \frac{1}{x} = -\frac{1}{x}$ $\frac{d}{dx} \ln \frac{1}{x^2} = -\frac{2}{x}$
- 7.8. $\frac{d}{dx} \ln x = \frac{1}{x}$ $\frac{d}{dx} \ln \frac{1}{x} = -\frac{1}{x}$ $\frac{d}{dx} \ln \frac{1}{x^2} = -\frac{2}{x}$
- 7.9. $\frac{d}{dx} \ln x = \frac{1}{x}$ $\frac{d}{dx} \ln \frac{1}{x} = -\frac{1}{x}$ $\frac{d}{dx} \ln \frac{1}{x^2} = -\frac{2}{x}$

דוגמאות נוספות:

דוגמא 1: $\frac{d}{dx} x^5 = 5x^4$ $\frac{d}{dx} x^{-5} = -5x^{-6} = -\frac{5}{x^6}$

דוגמא 2: $\frac{d}{dx} \ln x = \frac{1}{x}$ $\frac{d}{dx} \ln \frac{1}{x} = -\frac{1}{x}$

דוגמאות נוספות:

- $\frac{d}{dx} x^2 = 2x$
- $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$
- $\frac{d}{dx} \ln x = \frac{1}{x}$
- $\frac{d}{dx} \ln \frac{1}{x} = -\frac{1}{x}$
- $\frac{d}{dx} \ln \frac{1}{x^2} = -\frac{2}{x}$
- $\frac{d}{dx} \ln x^2 = \frac{2}{x}$
- $\frac{d}{dx} \ln \frac{1}{x^3} = -\frac{3}{x}$
- $\frac{d}{dx} \ln x^3 = \frac{3}{x}$
- $\frac{d}{dx} \ln \frac{1}{x^4} = -\frac{4}{x}$
- $\frac{d}{dx} \ln x^4 = \frac{4}{x}$
- $\frac{d}{dx} \ln \frac{1}{x^5} = -\frac{5}{x}$
- $\frac{d}{dx} \ln x^5 = \frac{5}{x}$
- $\frac{d}{dx} \ln \frac{1}{x^6} = -\frac{6}{x}$
- $\frac{d}{dx} \ln x^6 = \frac{6}{x}$
- $\frac{d}{dx} \ln \frac{1}{x^7} = -\frac{7}{x}$
- $\frac{d}{dx} \ln x^7 = \frac{7}{x}$
- $\frac{d}{dx} \ln \frac{1}{x^8} = -\frac{8}{x}$
- $\frac{d}{dx} \ln x^8 = \frac{8}{x}$
- $\frac{d}{dx} \ln \frac{1}{x^9} = -\frac{9}{x}$
- $\frac{d}{dx} \ln x^9 = \frac{9}{x}$
- $\frac{d}{dx} \ln \frac{1}{x^{10}} = -\frac{10}{x}$
- $\frac{d}{dx} \ln x^{10} = \frac{10}{x}$

