

1. $\frac{1}{x^2} = x^{-2}$ $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$
 2. $\frac{d}{dx} \ln x = \frac{1}{x}$
 3. $\frac{d}{dx} \log_a x = \frac{1}{x \ln a}$
 4. $\frac{d}{dx} e^x = e^x$
 5. $\frac{d}{dx} a^x = a^x \ln a$
 6. $\frac{d}{dx} x^a = a x^{a-1}$
 7. $\frac{d}{dx} x^x = x^x (1 + \ln x)$
 8. $\frac{d}{dx} x^{\frac{1}{x}} = x^{\frac{1}{x}} (1 - \frac{1}{x^2})$
 9. $\frac{d}{dx} \frac{1}{x} = -\frac{1}{x^2}$
 10. $\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$
 11. $\frac{d}{dx} \frac{1}{x^3} = -\frac{3}{x^4}$
 12. $\frac{d}{dx} \frac{1}{x^4} = -\frac{4}{x^5}$
 13. $\frac{d}{dx} \frac{1}{x^5} = -\frac{5}{x^6}$
 14. $\frac{d}{dx} \frac{1}{x^6} = -\frac{6}{x^7}$
 15. $\frac{d}{dx} \frac{1}{x^7} = -\frac{7}{x^8}$
 16. $\frac{d}{dx} \frac{1}{x^8} = -\frac{8}{x^9}$
 17. $\frac{d}{dx} \frac{1}{x^9} = -\frac{9}{x^{10}}$
 18. $\frac{d}{dx} \frac{1}{x^{10}} = -\frac{10}{x^{11}}$
 19. $\frac{d}{dx} \frac{1}{x^{11}} = -\frac{11}{x^{12}}$
 20. $\frac{d}{dx} \frac{1}{x^{12}} = -\frac{12}{x^{13}}$
 21. $\frac{d}{dx} \frac{1}{x^{13}} = -\frac{13}{x^{14}}$
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 100. $\frac{d}{dx} \frac{1}{x^{92}} = -\frac{92}{x^{93}}$

