

13. $\frac{1}{x^2} = x^{-2}$ $\frac{d}{dx} x^{-2} = -2x^{-3} = -\frac{2}{x^3}$ $\frac{d}{dx} \frac{1}{x^2} = -\frac{2}{x^3}$
14. $\frac{d}{dx} \ln(x^2) = \frac{1}{x^2} \cdot 2x = \frac{2}{x}$
15. $\frac{d}{dx} \ln(x^2 + 1) = \frac{1}{x^2 + 1} \cdot 2x = \frac{2x}{x^2 + 1}$
16. $\frac{d}{dx} \ln(x^2 - 1) = \frac{1}{x^2 - 1} \cdot 2x = \frac{2x}{x^2 - 1}$
17. $\frac{d}{dx} \ln(x^2 + x) = \frac{1}{x^2 + x} \cdot (2x + 1) = \frac{2x + 1}{x^2 + x}$
18. $\frac{d}{dx} \ln(x^2 - x) = \frac{1}{x^2 - x} \cdot (2x - 1) = \frac{2x - 1}{x^2 - x}$
19. $\frac{d}{dx} \ln(x^2 + 2x + 1) = \frac{1}{x^2 + 2x + 1} \cdot (2x + 2) = \frac{2x + 2}{x^2 + 2x + 1}$
20. $\frac{d}{dx} \ln(x^2 - 2x + 1) = \frac{1}{x^2 - 2x + 1} \cdot (2x - 2) = \frac{2x - 2}{x^2 - 2x + 1}$
21. $\frac{d}{dx} \ln(x^2 + 1) = \frac{1}{x^2 + 1} \cdot 2x = \frac{2x}{x^2 + 1}$



