

$\frac{1}{x^2} = x^{-2}$   
 $\frac{d}{dx} x^{-2} = -2x^{-3}$   
 $= -2x^{-3}$   
 $= -\frac{2}{x^3}$

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$\frac{1}{x^3} = x^{-3}$   
 $\frac{d}{dx} x^{-3} = -3x^{-4}$   
 $= -3x^{-4}$   
 $= -\frac{3}{x^4}$

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

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

$\frac{1}{x^6} = x^{-6}$   
 $\frac{d}{dx} x^{-6} = -6x^{-7}$   
 $= -6x^{-7}$   
 $= -\frac{6}{x^7}$

$\frac{1}{x^7} = x^{-7}$   
 $\frac{d}{dx} x^{-7} = -7x^{-8}$   
 $= -7x^{-8}$   
 $= -\frac{7}{x^8}$





