



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

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

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

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

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

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

9.  $\frac{1}{x^8} = x^{-8}$   $\frac{d}{dx} x^{-8} = -8x^{-9} = -\frac{8}{x^9}$   
 $\frac{d}{dx} \frac{1}{x^8} = -\frac{8}{x^9}$

1.  $\frac{d}{dx} x^n = nx^{n-1}$

2.  $\frac{d}{dx} x^n = nx^{n-1}$

1.  $\frac{d}{dx} x^n = nx^{n-1}$   
 $\frac{d}{dx} x^n = nx^{n-1}$

3.  $\frac{d}{dx} x^n = nx^{n-1}$

4.  $\frac{d}{dx} x^n = nx^{n-1}$

5.  $\frac{d}{dx} x^n = nx^{n-1}$

6.  $\frac{d}{dx} x^n = nx^{n-1}$













