



**NORTHEAST TEXAS**  
COMMUNITY COLLEGE



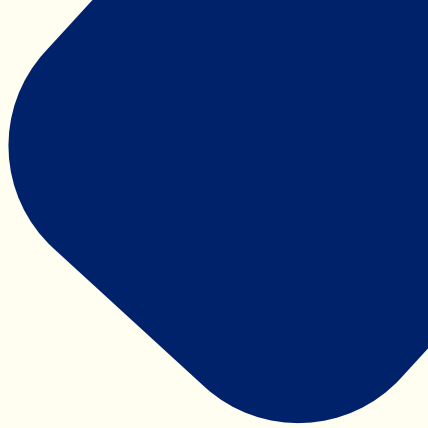
**NORTHEAST TEXAS**  
COMMUNITY COLLEGE

[www.ntcc.edu/medicalcoding](http://www.ntcc.edu/medicalcoding)



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

2.  $\frac{d}{dx} (x^2 + 3x - 5)$   
 $= \frac{d}{dx} x^2 + \frac{d}{dx} 3x - \frac{d}{dx} 5$   
 $= 2x + 3 - 0 = 2x + 3$

3.  $\frac{d}{dx} (x^2 + 3x - 5) \cdot (x^2 + 3x - 5)$   
 $= (2x + 3) \cdot (x^2 + 3x - 5)$   
 $= 2x^3 + 6x^2 - 10x + 3x^2 + 9x - 15$   
 $= 2x^3 + 9x^2 - x - 15$

4.  $\frac{d}{dx} (x^2 + 3x - 5)$

5.  $\frac{d}{dx} (x^2 + 3x - 5)$

6.  $\frac{d}{dx} (x^2 + 3x - 5)$

7.  $\frac{d}{dx} (x^2 + 3x - 5)$

8.  $\frac{d}{dx} (x^2 + 3x - 5)$

9.  $\frac{d}{dx} (x^2 + 3x - 5)$

10.  $\frac{d}{dx} (x^2 + 3x - 5)$

11.  $\frac{d}{dx} (x^2 + 3x - 5)$

12.  $\frac{d}{dx} (x^2 + 3x - 5)$

13.  $\frac{d}{dx} (x^2 + 3x - 5)$

14.  $\frac{d}{dx} (x^2 + 3x - 5)$

15.  $\frac{d}{dx} (x^2 + 3x - 5)$

16.  $\frac{d}{dx} (x^2 + 3x - 5)$

17.  $\frac{d}{dx} (x^2 + 3x - 5)$

18.  $\frac{d}{dx} (x^2 + 3x - 5)$

19.  $\frac{d}{dx} (x^2 + 3x - 5)$

20.  $\frac{d}{dx} (x^2 + 3x - 5)$

21.  $\frac{d}{dx} (x^2 + 3x - 5)$

22.  $\frac{d}{dx} (x^2 + 3x - 5)$

23.  $\frac{d}{dx} (x^2 + 3x - 5)$