

NMSI Calculus

Computing Derivatives Part 3

The Chain Rule

$$d(f(g(x))) =$$

Examples

1. $y = (3x^2 + 5)^2 = 9x^4 + 30x^2 + 25$

2. $y = \sin(2x)$

3. $y = \tan(5x - 7)$

4. $y = \cos^3(x^s)$

5. $y = (3x^2 + 2)^2 (4x - 5)^3$