

Calculus I

Formula Sheet

Chapter 3

Section 3.1

1. Definition of the derivative of a function:

$$f'(x) = \lim_{\Delta x \rightarrow 0} \frac{f(x + \Delta x) - f(x)}{\Delta x}$$

2. Alternative form of the derivative at $x = c$:

$$f'(c) = \lim_{x \rightarrow c} \frac{f(x) - f(c)}{x - c}$$

3. Differentiability \Rightarrow Continuity

Section 3.2

4. $\frac{d}{dx}[c] = 0$

5. $\frac{d}{dx}[x] = 1$

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

7. $\frac{d}{dx}[c f(x)] = c f'(x)$

8. $\frac{d}{dx}[f(x) + g(x)] = f'(x) + g'(x)$

9. $\frac{d}{dx}[f(x) - g(x)] = f'(x) - g'(x)$

10. $\frac{d}{dx}[\sin x] = \cos x$

11. $\frac{d}{dx}[\cos x] = -\sin x$

12. $\frac{d}{dx}[e^x] = e^x$

13. Free Fall: $s(t) = -\frac{1}{2}gt^2 + v_0t + s_0$

Feet: -32 Meters: -9.8

14. Velocity: $v(t) = s'(t)$

15. Find equation of tangent line to curve at $x = c$:

a. Equation of Line: need point and slope

b. Point: $(c, f(c))$ Slope: $m = f'(c)$

c. Point-Slope form: $y - y_1 = m(x - x_1)$

16. Derivative: a) Slope of tangent line
b) Instantaneous rate of change

Section 3.3

17. $\frac{d}{dx}[f(x) \cdot g(x)] = f(x)g'(x) + g(x)f'(x)$

18. $\frac{d}{dx}\left[\frac{f(x)}{g(x)}\right] = \frac{g(x)f'(x) - f(x)g'(x)}{[g(x)]^2}$

19. $\frac{d}{dx}[\tan x] = \sec^2 x$

20. $\frac{d}{dx}[\sec x] = \sec x \tan x$

21. $\frac{d}{dx}[\cot x] = -\csc^2 x$

22. $\frac{d}{dx}[\csc x] = -\csc x \cot x$

23. Horizontal Tangent Line: $m = f'(x) = 0$

Section 3.4

24. Chain Rule:

$$y = y(u), \quad u = u(x), \quad \frac{dy}{dx} = \frac{dy}{du} \cdot \frac{du}{dx}$$

25. $\frac{d}{dx}[\ln x] = \frac{1}{x}$

26. Definition of exponential function to base a:

$$a^x = e^{(\ln a)x}$$

27. Definition of logarithmic function to base a:

$$\log_a x = \frac{1}{\ln a} \ln x$$

28. $\frac{d}{dx}[a^x] = (\ln a)a^x$

29. $\frac{d}{dx}[\log_a x] = \frac{1}{(\ln a)x}$

Section 3.5

30. Implicit Differentiation:

a. Differentiate both sides with respect to x.

b. Isolate $\frac{dy}{dx}$ on the left side.

31. Logarithmic Differentiation:

a. Take a ln of both sides

b. Use properties of ln to expand

c. Differentiate implicitly

Chapter 1 Formulas And Applications Of Algebra

Gertrude W. Shew



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