

Writing Project #2 due Sunday

Test 3 over Chapter 3 due Tuesday

E-Mail me for when you want to re-take your Midterm. Give a specific time or times and we will try to meet that time.

You have 13 days to reach out.

3.9 - Antiderivatives: Working our tables of derivatives backwards!

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

$$\int x^n dx = \frac{x^{n+1}}{n+1}$$

$$\frac{d}{dx} [\sin(x)] = \cos(x)$$

$$\int \cos(x) dx = \sin(x)$$

$$\frac{d}{dx} [\cos(x)] = -\sin(x)$$

$$\int \sin(x) dx = -\cos(x)$$

Derivatives in Reverse!

$$\frac{d}{dx} [\sec(x)] = \sec(x)\tan(x)$$

$$\int \sec(x)\tan(x) dx = \sec(x)$$

Complete Graph: All Max/Min points, Inflection points, Intercepts and Asymptotes.

Domain

x- and y-intercepts

Max/Min (local and absolute) $f(a), f(b), f'=0, f' \neq$

Inflection Points. $f''=0, (f'' \neq \text{can be change of concavity.})$

Asymptotes: Vertical, Horizontal and/or Slant (oblique).