you need to be able to finish these in less than a minute

$$\int dx = \frac{x}{a}^{2} + c$$

$$\int \sqrt[4]{x} dx = \int \sqrt[4]{a} dx - \frac{x}{a} \int \frac{1}{a} dx = \int \sqrt[4]{a} dx = \frac{2}{a} \sqrt[4]{a} + c$$

$$\int \sqrt[4]{x} dx = \int \sqrt[4]{a} dx = \frac{1}{a} \sqrt[4]{a} dx = \frac{2}{a} \sqrt[4]{a} + c$$

$$\int \frac{1}{\sqrt{x}} dx = \int \sqrt[4]{a} dx = \frac{2}{a} \sqrt[4]{a} + c$$

$$\int \frac{1}{\sqrt{x}} dx = \int \sqrt[4]{a} dx = \frac{2}{a} \sqrt[4]{a} + c$$

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$$\int \frac{1}{\sqrt{x}} dx = \sqrt[4]{a} \sqrt[4]{a} + c$$

$$\int \frac{1}{\sqrt{x}} dx = \sqrt[4]{a} \sqrt[4]{a} + \frac{2}{a} \sqrt[4]{a} + c$$

$$\int \frac{1}{\sqrt{x}} dx = \sqrt[4]{a} \sqrt[4]{a} + \frac{1}{a} \sqrt[4]{a} + \frac{1}{a}$$

Implied Differentation:

$$\frac{d}{dx} | (xy) = 1.y + x. \frac{dy}{dx} = 1.y + xy^{1}$$
product
Pythag. The Id'

$$\frac{d}{dx} (xy) = 1.y + x. \frac{dy}{dx} = 1.y + xy^{1}$$

$$\frac{d}{dx} (xy) = 1.y$$

$$\frac{d}{dx} (\cos\theta, \sin\theta)$$

$$\frac{d}{dx} (\cos\theta, \sin\theta)$$

$$\frac{d}{dx} (\sin\theta) = 1$$

$$\frac{d}{dx} (\tan^{-1}x) = 7$$

$$1 + \tan\theta = 878$$
(1) set $y = \tan^{-1}x$
(2) $\frac{d}{dx} (y) = \frac{d}{dx} (\tan^{-1}x)$
(3) $\frac{d}{dx} (y) = \frac{d}{dx} (x) = 1$

$$\frac{d}{dx} (\tan(y)) = \frac{d}{dx} (x) = 1$$

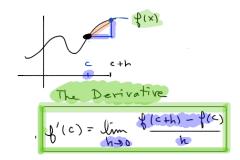
$$\frac{d}{dx} (x) = \frac{1}{8c^{2}(y)} = \frac{1}{11 + \tan^{2}y}$$

$$\frac{d}{dx} = \frac{1}{8c^{2}(y)} = \frac{1}{11 + \tan^{2}y}$$

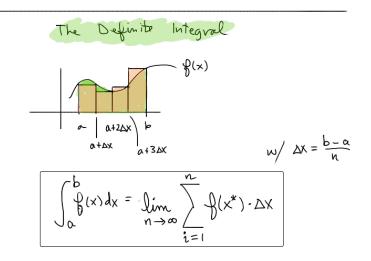
$$\frac{d}{dx} = \frac{1}{8c^{2}(y)} = \frac{1}{11 + \tan^{2}y}$$

Thursday

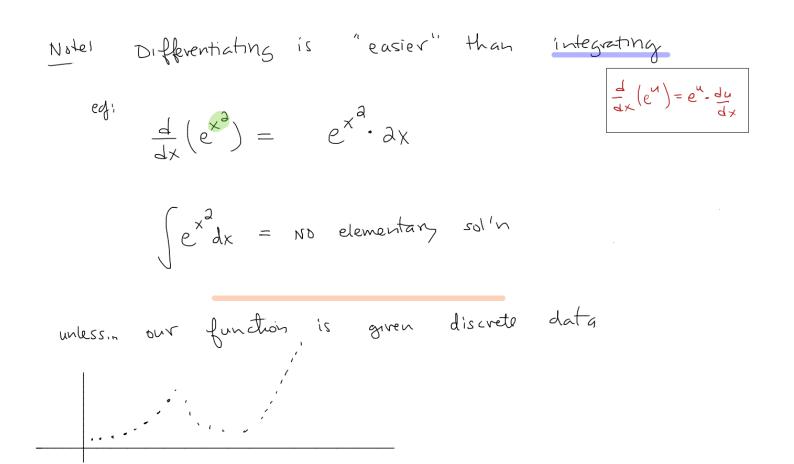
- ▼1. Calculus I Review
 - ▼a. What is Calculus I?
 - i. Precise way of calculating change (in functions)
 - ▼ ii. Two Branches: Differential & Integral
 - 1. Both depend on the idea of an infinite limit



Link https://www.desmos.com/calculator/t6sxoyxyty



Link: https://www.desmos.com/calculator/tgyr42ezjq



$$u-sub$$

$$\lim_{x \to \infty} \frac{1}{2} = \int_{-\infty}^{\infty} \frac{1}{2} \int_$$