AP Calculus AB Thursday, February 20, 2014

Write the number of any "problem" problems on

$$\int \frac{1}{2} \int \frac{$$

$$= -2\cot u + C$$

$$= -2\cot(\frac{x}{2}) + C$$

$$\frac{\sin x}{\cos^3 x} dx$$

$$u = \cos x$$

$$du = -\sin x dx$$

$$-1 \cdot du = \sin x dx$$

$$\int -1 \cdot du$$

$$u^3$$

$$\int -1 \cdot u^{-3} du$$

$$-\frac{1}{2} \cdot \frac{1}{2} + C$$

$$= \frac{1}{2} \cdot \frac{1}{2} + C$$

$$\int \frac{\sin(x)}{\cos^3(x)} \ dx = \frac{\sec^2(x)}{2} + \text{constant}$$

Hanx sec x dx

$$u = tanx$$
 $dx = sec^2xdx$

$$\int u^{1/2} du$$
 $= \frac{2}{3} + C$
 $= \frac{2}{3} + C$
 $= \frac{2}{3} + C$
 $= \frac{1}{3} +$