Section 7.1: Cantd

Tuesday, February 24, 2015 11:55 AM

examples.
$$s.inplify$$

$$\frac{CSC(-x)}{Cot(-x)}$$

$$\frac{1}{Sin(-x)}$$

$$\frac{1}{Sin(-x)}$$

$$\frac{1}{Sin(-x)}$$

$$\frac{1}{Sin(-x)}$$

$$\frac{1}{Sin(-x)}$$

$$\frac{1}{Cos(-x)}$$

Method #1:
$$1 + \tan y$$

 $\left(\frac{\tan y}{\tan y}\right) + \frac{1}{\tan y}$
 $\frac{1 + \tan y}{\tan y}$

Section 1 Lectures Page 1

sigle
$$\left\{ \begin{array}{c} 1 + 4nq \\ 4nq \\ 4nq \\ 1 + 4nq \\ 1 + 4nq \\ 1 + 4nq \\ 1 + 4nq \\ 6nq \\ 6$$

retrianalize the denominator

$$\int \frac{1-\cos \beta}{1+\cos \beta}$$
Method #1
$$\int \frac{1-\cos^2 \beta}{1+\cos \beta} \int \frac{1+\cos \beta}{1+\cos \beta}$$

$$\int \frac{1-\cos^2 \beta}{(1+\cos \beta)^2} \quad \text{role: } \sin^2 \beta + \cos^2 \beta = 1$$

$$\int \frac{1-\cos^2 \beta}{(1+\cos \beta)^2} \quad \sin^2 \beta = 1-\cos^2 \beta$$

$$\int \frac{1-\cos^2 \beta}{(1+\cos \beta)^2}$$
Method #2
$$\int \frac{1-\cos \beta}{(1+\cos \beta)^2}$$
Method #3
$$\int \frac{1-\cos \beta}{1-\cos \beta}$$

$$\int \frac{(1-\cos \beta)^2}{1-\cos^2 \beta}$$