$$\frac{d}{dx} \left[ cu \right] = C \cdot u'$$

$$\frac{d}{dx} \left[ 4(aunx) \right] = 4cosx$$

$$\frac{d}{dx} \left[ u \pm v \right] = u' \pm v'$$

$$\frac{d}{dx} \left[ uv \right] = u \cdot v' + v \cdot u'$$

$$\frac{d\left[\underline{u}\right]}{dx}\left[\frac{v\cdot u'-u\cdot v'}{v^2}\right]$$

$$\frac{d}{dx} \left[ \frac{x^2 - 3}{\sin x} \right] = \frac{\sin x(2x) - \cos x}{\sin^2 x}$$

$$\frac{d}{dx}[N^n] = N \cdot N^{n-1} \cdot U'$$

$$(Claim Rub)$$

$$(Claim$$

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

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

$$\operatorname{arctant}_{1}^{2} \int \frac{1}{x} dx \cdot \int \frac{Y^{2}}{X^{2}}$$

=arctan2-arctan1

(B) 
$$\int_{-1}^{\infty} \frac{x}{(x+4x)^2} dx \quad \text{Let } u = \lambda + 4x^2$$

$$\int_{-1}^{\infty} \frac{1}{(x+4x)^2} dx \quad \text{Let } u = \lambda + 4x^2$$

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