

$$\begin{split} & \mathbb{E}[X|E] = \underset{x}{\leq} \times f_{(x)}(x|C) \\ & \mathbb{E}[X] = \underset{x}{\leq} \times f_{(x)}(x|B) + f(B) \\ & = \underset{x}{\leqslant} \times f$$

Cos20 + Sin20 = 1 ton 0 = Sino Sin 20 = 2 Sin & Cos A Cos 20 = Cos 20 - Sin 20 tan 20 = 2 tan 0 = 26020-1 = 1-25in20 Seco= 1 Coseco = SinA $Sin \times Sin Y = \frac{1}{2} \left(Cos(x-Y) - Cos(x+Y) \right)$ Cos X Cos Y = 1 (Gs (x-Y)+ Cos (X+Y)) $Cos \times Sin Y = \frac{1}{2} \left(Sin (X+Y) - Sin (X-Y) \right)$ d Sinx = Cosx Derivatives: $\frac{1}{4x} F(x)^n = n F(x)^{n-1} F(x)$ d Cosx = - Sinx $d \tan x = sec^2 x$ $\frac{d}{dx}fg = f'g + fg'$ d Secx = secx tanx d Cosec x = -Cosec x Cotx $\frac{d}{dx} e^{f(x)} = f'(x) e^{f(x)}$ d Cot x = - cosec2x

Integrals: $\int dx = x$ $\int x^n dx = \frac{1}{n+1} x^{n+1}$ $\int \frac{1}{x} dx = \ln(x)$ $\int x^n dx = \frac{1}{n+1} x^{n+1}$ $\int \frac{1}{ax+b} dx = \frac{1}{a} \ln|ax+b|$ $\int e^{nx} dx = \frac{1}{n} e^{nx}$

Suváx = Sudv = uv - Sváu

 $\begin{bmatrix}
\sum_{j=0}^{n} q^{j} = \frac{1-q^{n-1}}{1-q} \\
\sum_{j=0}^{n} \binom{n}{j} a^{n} = \binom{n}{k} a^{n}
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