$$y = \log(\cos(x))$$
Find  $y' \Rightarrow y' = \frac{1}{\cos(x)} \cdot -\sin(x) = -\tan(x)$ 

$$y = log_5(tan(x)) = \frac{ln(tan(x))}{sn5}$$
Find  $y' \Rightarrow y' = \frac{l}{ln5} \cdot \frac{l}{tan(x)}$ ,  $sec(x) \cdot tan(x) = \frac{Sec(x)}{sn5} \cdot \frac{l}{ln5} \cdot \frac{l$ 

$$\int x \int_{-\infty}^{\infty} dx \Rightarrow lot u = x^{2}, du = 2xdx. \Rightarrow \frac{du}{2} = xdx$$
11 U-substitution

$$\int \frac{5}{2} du = \frac{1}{2} \int 5^{4} du = \frac{1}{2} \cdot \frac{1}{245} \cdot 5^{4} + C.$$

$$=\frac{1}{2}\frac{1}{2n5}5^{x}+C$$

$$\int \frac{\log_2 x^3}{x} dx = \int \frac{\ln x^3}{\ln x} \cdot \frac{1}{x} dx = \int \frac{3}{\ln x} \cdot \frac{\ln x}{x} dx$$

$$=\frac{3}{2n^2}\int \frac{\ln x}{x} dx = \frac{3}{2n^2}\int u du = \frac{3}{2n^2}\cdot \frac{u^2}{2} + C.$$

$$du = \int_{X}^{A} du = \int_{X}^{A} du$$

$$=\frac{3}{2n^2}\cdot\frac{(2nX)^2}{2}+C$$

$$\int \frac{\sin(e^{2x})}{e^{2x}} dx = \int \frac{\sin(u)}{-2} du = -\frac{1}{z} \int \sin(u) du$$

$$(u-substitution) = -\frac{1}{z} (-\cos(u)) + C.$$

$$\int \frac{du}{dx} = e^{2x} dx = \frac{1}{z} \cos(e^{2x}) + C.$$

$$\Rightarrow \frac{du}{-z} = e^{2x} dx$$

$$= \frac{1}{z} \cos(e^{2x}) + C.$$

$$\Rightarrow \frac{du}{-z} = e^{2x} dx$$

$$= \frac{1}{z} \cos(e^{2x}) + C.$$

$$\Rightarrow \frac{du}{-z} = e^{2x} dx$$

$$= \frac{1}{z} \cos(e^{2x}) + C.$$

$$\Rightarrow \frac{du}{-z} = e^{2x} dx$$

$$= \frac{1}{z} \cos(e^{2x}) + C.$$

$$= \frac{1}{z} \cos(u) + \frac{x+1}{z} \cos(u)$$

$$= \frac{$$

U= Inx.

 $dN = \frac{\lambda}{dx}$