$$u = cosx = du = -sinx dx = du = -sinx$$

$$co-write as$$

$$\frac{dy}{dx} = \frac{dy}{du}, \quad \frac{du}{dx} = \frac{d}{du} \int_{0}^{\infty} (t^{4}+6)dt \cdot (-s_{1}-x_{2})$$

$$= (u''+b) \cdot (-sikx) = (os4x+b) \cdot (-sikx)$$

$$(30) \frac{d}{d\omega} \int_{0}^{\infty} |x(x^2+1) dx = \frac{dy}{d\omega} = \frac{2}{3}$$

$$\frac{dy}{du} = \frac{dy}{du}, \frac{du}{du} = \frac{d}{du} \int_{0}^{u} \ln(x^{2}+1) \cdot dx \cdot \frac{1}{2\sqrt{u}}$$

$$=17(u^{2}+1).\frac{1}{2\sqrt{w}}=17(w+1)$$