IF. (hain rule, implicit differentiation

$$\left| \frac{dy}{dx} - \frac{1}{n} x^{\frac{1}{n}-1} \right|$$

$$\sin x + \sin y = \frac{1}{2}$$

$$(05x + \frac{dy}{dx} \cos y = 0$$

$$\frac{dy}{dx} = -\frac{\cos x}{\cos y}$$

$$\frac{dy}{dx} = 0$$
when $x = \dots, -\frac{3\pi}{a}, -\frac{\pi}{a}, \frac{3\pi}{a}, \frac{\pi}{a}, \dots$
and $y \neq \dots, -\frac{3\pi}{a}, -\frac{\pi}{a}, \frac{3\pi}{a}, \frac{\pi}{a}, \dots$

and
$$y \neq \cdots, -\frac{3\pi}{a}, -\frac{\pi}{a}, \frac{3\pi}{a}, \frac{\pi}{a}, \cdots$$

$$V = \frac{1}{3} \pi r^a h$$

$$0 = \frac{3}{4} \cdot \left(\frac{q\mu}{q\nu} + 1 \cdot \nu_{q} \right)$$

$$0 = \frac{dr}{dh} \cdot \frac{2\pi rh}{3} + \frac{\pi r^{2}}{3}$$

$$\left| \frac{dr}{dh} = -\frac{r}{ah} \right|$$

81)
$$C^{2} = A^{2} + b^{3} - \lambda ab \cos \theta$$

$$0 = \frac{da}{db} \lambda a + \lambda b - \lambda \cos \theta \left(\frac{da}{db} \cdot b \right) - \lambda \cos \theta (a \cdot 1)$$

$$\frac{da}{db} \lambda b \cos \theta - \frac{da}{db} \lambda a = \lambda b - \lambda a \cos \theta$$

$$\frac{da}{db} = \frac{-\lambda a \cos\theta - \lambda b}{2b \cos\theta - \lambda a} = \boxed{\frac{a \cos\theta - b}{a - b \cos\theta}}$$