Class: - 17 " (Topic: Differentiation)

QIT find
$$\frac{dy}{dx}$$
 if $y = \frac{10^{x}}{8inx}$

Sel- $y = \frac{10^{x}}{8inx}$

Diff. $10 \cdot x \cdot 1 \cdot x \cdot 6 = 10^{x}$ the Ride

$$\frac{dy}{dx} = \frac{8inx}{dx} \frac{d}{dx} \frac{10^{x}}{10^{x}} - \frac{10^{x}}{dx} \frac{d}{2inx}$$

$$\frac{dy}{dx} = \frac{8inx}{8inx} \times \frac{10^{x}}{10^{x}} \frac{10^{x}}{10^{x}} = \frac{8inx}{8inx} \times \frac{10^{x}}{10^{x}} \frac{10^{x}}{10^{x}} = \frac{8inx}{8inx} \times \frac{10^{x}}{10^{x}} \frac{10^{x}}{10^{x}} = \frac{10^{x}}{8in^{x}} \times \frac{10^{x}}{10^{x}} \frac{10^{x}}{10^{x}} = \frac{10^{x}}{8in^{x}} \times \frac{10^{x}}{10^{x}} \frac{10^{x}}{10^{x}} = \frac{10^{x}}{10^{x}} \times \frac{10^{x}}{10^{x}} \frac{10^{x}}{10^{x}} = \frac{10^{x}}{10^{x}} \times \frac{10^{x}}{10^{x}} \frac{10^{x}}{10^{x}} = \frac{10^{x}}{10^{x}} \times \frac{10^{x}}{10^{x}} \times \frac{10^{x}}{10^{$$

SUSHEEL SIR MATHS

Class: 17th (Topic: Differentiation)

Ex: 30.5

8 29.

$$y = \frac{ax+b}{px^2 + 9x + 91}$$

SUSHEEL SIR MATHS

Diff. W. H. L. 'x' bath the side

$$\frac{dy}{dn} = \frac{(n^2 + 9n + 9) \frac{d}{dx} (9n + 6) - (9n + 6) \frac{d}{dx} (px^2 + 9x + 91)}{(px^2 + 9x + 91)^2}$$

$$\frac{dy}{dx} = (Px^{2} + 9x + 9) \times (ax + 0) - (ax + 0) \times (2Px + 9x + 0)$$

$$(Px^{2} + 9x + 9)^{2}$$

$$\frac{1}{1} = \frac{apx^2 + aqx + oy - 2apx^2 - 99x - 2bpx - bq}{(0)}$$

$$\frac{dy}{dx} = -\frac{(Px^2 + 9x + 9)^2}{-26Px + 9x - 69}$$

$$\frac{(Px^2 + 9x + 9)^2}{(Px^2 + 9x + 9)^2}$$