$$z = \frac{y}{x} \text{ homogen}$$

$$\frac{dy}{dx} = \frac{y}{x} + \frac{1}{\sin x/y}: \quad x > 1{:}0 < y < \pi$$

$$\frac{dy}{dx} = \frac{x-y}{x+y} \text{ Lsg/Def-Ber}$$

$$x^2 \frac{dy}{dx} = y^2 - xy + x^2: \quad \text{allg Lsg } /y\,(1) = 2$$

$$-\frac{dy}{dx} = \frac{2x + 3y/2}{3x/2 + y} \text{ Lsg/Def-Ber}$$

$$\left(\frac{x}{2} - y\right) \frac{dy}{dx} = -2x - \frac{y}{2} \text{ allg Lsg}$$