$$y(x) = 4 + 8 \times 18^{2} + \sum_{k=3}^{2} \frac{2^{k2} \cdot 17}{k!} \times k \quad \text{some story as}$$

$$y(x) = y^{4} \cos(x) + y^{4} ty(x) \quad | y^{4} \quad (\text{Bernoulli-file DE})$$

$$y' = \cos(x) + y^{3} ty(x) \quad | | \text{max} = [y(x)]^{-3}$$

$$y'' = (\cos(x) + y^{3} ty(x)) \quad | | \text{max} = -3 y^{4} \cdot y^{4}$$

$$-3 y^{4} y' = (\cos(x) + y^{3} ty(x)) \quad | | \text{max} = -3 y^{4} \cdot y^{4}$$

$$u' = -3 \cos(x) - 3 u ty(x)$$

$$komogen \quad | u' = -3 ty(x) - 3 \int \frac{\sin x}{\cos x} = 3 \log(u + x) + c$$

$$x = e^{\cos(x)} \cdot c_{2}$$

$$x = e^{\cos(x)$$