

online #6

$$y' = 6y^{5/6}$$

not nice

$$y(0) = 0$$

$$\frac{dy}{dy} = 6 \frac{5}{6} y^{-1/6}$$

not cont at 0

$$y(t) = 0 \text{ for all } t$$

$$\int \frac{dy}{y^{5/6}} = \int 6 dt$$

$$\int y^{-5/6} dy = 6t + C_1$$

$$6y^{1/6} = 6t + C_1$$

$$6 \cdot 0^{1/6} = 6(0) + C_1, \quad y(0) = 0$$

$$C_1 = 0$$

$$y^{1/6} = t$$

$$y = t^6$$