

ASSIGNMENT

- Find the general solution for the differential equation-

$$dy + 7d dx = 0$$

- Show that-

$$\frac{d^2y}{dx} = 2 \frac{dy}{dx}$$

Has a solution of $y = c_1 + c_2 e^{2x}$

- If a differential equation does have a solution how many solutions are there?
- Explain the different cases of Non-linear differential equations of the first order and first degree.