B: $x' = 2tx \ x' = 2tx = > \frac{dx}{dt} = 2tx = > \frac{dx}{x} = 2tdt = > \frac{dx}{x} = \int 2tdt = > \int \ln(|x|) = t^2 + k$ $e^{\ln(|x|)} = e^{t^2 + k} = > |x| = e^k e^{t^2} \ x = \pm e^k e^2 \ e^k$ es una constante (C). Solucion General: $x = Ce^{t^2}$ C: $x' = t^2 x^2$ $\frac{dx}{dt} = t^2 x^2 = > \text{si } x \neq 0 \ \frac{dx}{x^2} = t^2 dt = > \int \frac{dx}{x^2} = \int t^2 dt \ \frac{-1}{x} = \frac{t^3}{3} + k = > \frac{-1}{x} = \frac{t^{3+3k}}{3} = > x = \frac{-3}{t^3+3k} \ 3k = \text{constante c Solucion General: } x(t) = \frac{-3}{t^3+c}, c \in \mathbb{R} \text{ Solucion Singular: } x(t) = 0$