Antonomous / Non-aytonomous dy = f(y) Y" = ty / 4'=4 ty = 2 y'-- 2y / Y" = y-2 + y \ 7" -- + x X

Homogenous VI Non-homogenous

1) Put ; ~ S.F.

2) RUS=0 3) Homogenous E 4, y + P(x) y + H(x) = 0 Non-homogenous المارمار

2.3

() It = rp

Fine the rate constant

rit the population

doubles 12 days.

Suppose 
$$P(D) = PO$$

$$P(12) = 2PO$$

2 - 2 - 2 P = C P - e e p- Ce