105:Stic growth, 641 growth constant (04 × (1-×/K))-Coupling terms accounting for Interactions between Species Binteraction dt = oc2 y + 3 Bxy - exponentional scouth constant X = Prey (Squirre 15) y= (redator (Hawles) or = growth constant for prex OE, = growth constant for predator K = Carrying capacity for prey B= coupling constant

Where FCX51) = 04, X (1- 2) - 13xy = 04, X - 04, X2 - 13xy 9(x,y) = 024 + 3 Bxy df = 01 - 2 01, x - 13y df = - Bx d9 = 3 By 6 $\frac{d9}{dx} = \alpha_2 + 3 + 3 \times 6$ - 13× 06,-201 / - BY 50, 3= C42 +313x) BY

3. Finding equilibrim:

$$\frac{dx}{dt} = 0$$
 $\frac{dx}{dt} = 0$
 $\frac{dx}{dt} = 0$