Additional Points on the Threshold Theorem of Sp; demiology 2 = (x0 + y0) - y + B ln (y/y0) |X = x(y) i) x has a turn (a maximum) when y=B/A. ii) When y to, (i.e. y « B/A), x -1-0. 1.e. 2 ~ B la (3). The logarithmic part dominates. (iii) When 3 -> 0 (i.e. 5>> B/A), then

[x ~-y]. The linear pant dominales. 1x x(infected class) iv) for B=0, increases.

y (snoceptible)

Straight decreases

line (301%) dZ = 0 (No Alcovered in dinidual) and 2=(x0+40)-4. In this case, stanking et t=0, out susceptibles become infected. No one recoveres and ma no one is removed. A Correction: yo- yoo = 2 yo (yo-1) Non 50 = P + E => 20 -1 = E where E << P Hence, yo-yoo = 290 = 2(e+E) = 2(e+E) =/e. 3) $y_0 - y_\infty = 2 \frac{pE}{R} + 2 \frac{E^2}{P} = 2 E$ (neglecting E^2) $y_0 - y_\infty = 2 E = 2(y_0 - p)$ when y_0 is slightly greater than p