Qu12 30 a) For the rate equation y'= 10 -.2 y describe the long term he horror. y'=10-.24=0 when y=10=50 7 7 30 to 15 = 501 b) Use of = Pi(1-f) - Pef to find the long term behavior when $p_i = .7$, $p_e = .9$ df = .7 (1-f) -.9f = .7 - 1.6f thess df = 0 when f = 07 = 4375 90 in the long term
.4375 7 1 .4375 (ie 43.75%) t of the regions one populatedo