PH3105 . December PC- 2 TUESDAY AMIT PRATAP 2512MX1 (a) dy = -1000 y + 3000 - 2000 et. -) dy + 1000 y = 3000 - 2000 e-1 -9 0 I.F = e = 5 1000 dt. 1000 t y e 1000t = (3000-2000 1-t) 2.000t dt. = /(3000 L 1000t - 2000 e 999t) dt => y e (000t = 3000 e (000t = 2000 e 999t f C 3 - 2000 + C. 2000 _ 3 . = -0.99799 y(x) = -0.99799e -2002e