Monday, 2 October 2023 08:41 Introduction to Dif Int. Calc.) need (Me 8 identity with an unknown | 4(t) 3x + 2 = 02 + 2x -1 = 0 y = y(t) appears into -s the unknown the eqn with some of its derivatives y'(t), y'(t), ... y(n)(t) order of the eqn. n-th deriv of 4 Example (Malthus model) Gool: describe the evolution of a population. P = P(t) = "size" of pop at time t P(t+h) - P(t)t, t+h, P(t+h) - P(t) var of pop over tot pop. P(t) growth rate on [t, t+h] P'(t) instantaneous growth rate Molthus: inst. growth rate is const