Chapter 2 Rinst-Order Equation (a) The equation T + kT = 0 is separable, with solution Ti = Ce-lt, C an arbitrary constant.
(b) The equation T = -k(T - Λ) is autonomous. We seek a constant solution (see Section 2.9) $C = \frac{wkA}{k^2 + w^2} \quad \text{and} \quad D = \frac{k^2A}{k^2 + w^2}.$ that makes the right side equal to zero. Hence, $\overline{l}p = A$ is a particular solution of the inhomo-Substituting these results in $T_P = C \cos wt + D \sin wt$ provides the particular solution neous equation. $c_{\text{general solution is } T = T_1 + T_2 = T_1^2 + A$ with Cash arbitrary constant. $\frac{wkA}{k^2 + w^2} \cos wt + \frac{k^2A}{k^2 + w^2} \sin wt$ nor, the general solution is $T = T_b + T_p$ AA constant The inhomogeneous equation -k(T - A) + H is also autonomous the is independent of t. We seek a $= Fe-kt + \frac{1}{k^2 + \alpha^2} (k \operatorname{sm} wt - \alpha \cos wt)$ If the period of the ambient temperature is 24 hours, then the commutation $T_{l} - A = H$ $T_{l} - A = H$ $w = \frac{2n}{7} = \frac{2n}{-24} = \frac{n}{12}$ T = K = H = Ka angular frequency Because the sinu-a maximum of 80° F and a minimum 7 the amplitude will be half of the dif-or 20. A sketch of the ambient tem-follows general solution is given by the $\tau = \tau_1 + \tau_2 = c_r + \epsilon_A + (J)$ The solution of the homogeneous equation T + kT = 0 is $T_1 = Fe-lt$, with Fixin arwhere y constant. We gives that $T_{\Gamma} = C \cos wt + D \sin wt$ is a particular solution. Substituting T_{Γ} and $T_{\Gamma} \equiv$ $=Cc \sin wt + Dc \cos wt$ in the kft side of $T + kT = kA \sin wt$ then gathering coeffi-cients of $\cos wt$ and $\sin wt$ we obtain $T_{\Gamma} + kT = \{-wc + kD\} \sin wt + (kC + wD) \cos wt$ Comparing this with the right side of $\prod_{j=1}^{d(k,1)} kT_j = kA \sin w t$ we see that wC + kD = kA and $kC + wD \equiv 0$. lving these equations simultaneously (for ex-sple, multiply the first equation by k, the sec-

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Note FactorWe can use the The solution is given implicitly by the equation Separate the variables and integrate. This last equation can be written as y2This material is protected under all copyright laws as they currently exist. No portion of this material may be reproduced, in any form or by any means, without permission in writing from the publisher. The initial conditionWe are looking. The interval of existence requires thatSubstituting,C decays everyC. After about 10 halflives 57300NoThe ratio remaining is 0.617 of the current ratio, In 0.617Aekt and writeTo find the time ofIn 1.6Thus, the murder occurred at approximately 954Since we know k, we can solve this equation for TThereforeThis separable differential equation is easily solvedDifferentiating this equation with respect to x andThis equation separates asThe x, ycomponents of the path of a rain dropThe gradient of z isThis differential equation can be separated andThe cross sectional area of theThe cross sectional area is nx2From Torricellis lawThe destroyer wants to follow a path so that its arcThis equation can be separated and solved for y asDifferentiating this equation givesAs in the analysis of the last problem, the rate of Section 2.3. Models of Motion This material is protected under all copyright laws as they currently exist. No portion of this material may be reproduced, in any form or by any means, without permission in writing from the publisher. This is an implicit equation for v0. Solving on aSolving for y we get the result. Hence if y1 is the maximum height we haveUsing the reduction of order technique as given inGM dThis material is protected under all copyright laws as they currently exist. No portion of this material may be reproduced, in any form or by any means, without permission in writing from the publisher. Newtons law gives From the initial condition thatSeparating this equation and integrating gives v2Section 2.4.

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The rate out isLet yt denote the amount of salt in Tank B. Then the rate into Tank B is the same as the rate. The rate out of Tank B is. Hence the model equation is. This linear equation can also be solved usingThis means that the flow between the lakes andWe will start time over at this point and we have. Now there is no flow of pollutant into LakeThe plot of the solution over 10 years is shownSad Times continues to rise for some time afterSalt leaves Tank II atUsing a computer or a calculator, we find thatSalt leaves Tank II at. Consequently,This equation is linear with general solutionSection 2.6. Exact Differential EquationsWe solve by setting. To find , we differentiateTo find the solution weWe solve by setting. To find , we differentiate. To find , we differentiateBoth terms are homogeneous degree 1, soSeparate variables and integrate.Therefore. Taking the exponential of both sides,Solve for v.The original curves are the solid curves in theThe orthogonalRearranging,Use the quadratic formula to solve for y. The trick now is to recognize that the lefthandSquare, then solve for y2.Section 2.7. Existence and Uniqueness of SolutionsConsequently there is no 1The

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