

# Solution Manual Perko Differential Equations And Dynamical

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For  $x_p = e^{-t}$ ,  $x' = -e^{-t}$ . So  $x' - 3x' + 2xp = e^{-t} + 3e^{-t} + 2e^{-t} = 6e^{-t} = \text{r.h.s.}$  The general solution is thus  $x = c_1 e^t + c_2 e^{2t} + e^{-t}$ . (b) Using the initial conditions  $x(0) = 4$ ,  $x'(0) = 3$  for the first solution we get,  $4 = c_1 + c_2 + 2$  and  $3 = c_1 + 2c_2$ . Solving these equations for  $c_1$  and  $c_2$  we have  $c_1 = c_2 = 1$ .

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$x_3 = 2\sin x$   $x_1 = 2\cos x$   $C_3$   $x_1 = 2\sin x$   $C_1 = 2\cos x$   $1$   $2$   
 $x_1 = 2\sin x$   $C_3 = 2\sin x$   $1$   $4$   $x_1 = 2\sin x$   $C_2$ .  $x_3 = 2\cos x$   $C_1 = 2\sin x$   $C$   $3$   
 $4$   $x_1 = 2\cos x$   $x_1 = 2\sin x$   $1$   $2$   $x_1 = 2\cos x$   $C_3 = 2\cos x$   $1$   $4$   $x_1 = 2\cos x$   
 $C_4$   $C$   $x_2$ .  $1$   $4$   $.4x$   $C_8/D$   $4x$   $3C_8x$   $2C$   $3x$   $2$ .  $1.2.4$ . (a) If  $y_0 = x$ ,

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theyD xexC R exdxCcD .1 x/exCc, and y.0/D 1) 1D 1Cc, so cD 0and yD .1 x/ex.

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This solutions manual is a guide for instructor's using A Course in Ordinary Differential Equations. Many problems have their solution presented in its entirety while some merely have an answer and few are skipped. This should provide sufficient guidance through the problems posed in the text.

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reads  $r(0) = h$ ,  $r'(0) = 0$ . The equation of motion reads  $r = M(R + r)^2$  (exact model) respectively  $r = g$  (approximate model); where  $g = M/R^2$  and  $R, M$  are the radius, mass of the earth, respectively. (i) Transform both equations into a first-order system. (ii) Compute the solution to the approximate system corresponding to the given initial condition.

## **Ordinary Differential Equations and Dynamical Systems**

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