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## Differential Equations and Dynamical Systems | Lawrence ...

For  $x'' + 3x' + 2x = e^{-t}$ ,  $x' = -e^{-t}$ ,  $x = e^{-t}$ . So  $x'' - 3x' + 2x = e^{-t} + 3e^{-t} + 2e^{-t} = 6e^{-t}$ . 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  $c_1 = c_2 = 1$ .

## Solutions Manual Introduction Differential

$x_3 = 2\sin x$ ,  $x_1 = 2\cos x$ ,  $x_2 = 2\sin x$ ,  $x_4 = 2\cos x$ . (a) If  $y = e^{ax}$ , then  $y' = ay$ , so  $ay = C$ ,  $y = C e^{-x}$ , and  $y(0) = 1$ , so  $C = 1$  and  $y = e^{-x}$ .

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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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