

CHAPTER

3

Second-Order Linear Equations

3.1

1. Let $y = e^{rt}$, so that $y' = re^{rt}$ and $y'' = r^2e^{rt}$. Direct substitution into the differential equation yields $(r^2 + 2r - 3)e^{rt} = 0$. Canceling the exponential, the characteristic equation is $r^2 + 2r - 3 = 0$. The roots of the equation are $r = -3, 1$. Hence the general solution is $y = c_1e^t + c_2e^{-3t}$.

2. Let $y = e^{rt}$. Substitution of the assumed solution results in the characteristic equation $r^2 + 3r + 2 = 0$. The roots of the equation are $r = -2, -1$. Hence the general solution is $y = c_1e^{-t} + c_2e^{-2t}$.

5. The characteristic equation is $4r^2 - 9 = 0$, with roots $r = \pm 3/2$. Therefore the general solution is $y = c_1e^{-3t/2} + c_2e^{3t/2}$.

6. The characteristic equation is $r^2 - 2r - 2 = 0$, with roots $r = 1 \pm \sqrt{3}$. Hence the general solution is $y = c_1e^{(1-\sqrt{3})t} + c_2e^{(1+\sqrt{3})t}$.

7. Substitution of the assumed solution $y = e^{rt}$ results in the characteristic equation $r^2 + r - 2 = 0$. The roots of the equation are $r = -2, 1$. Hence the general solution is $y = c_1e^{-2t} + c_2e^t$. Its derivative is $y' = -2c_1e^{-2t} + c_2e^t$. Based on the first condition, $y(0) = 1$, we require that $c_1 + c_2 = 1$. In order to satisfy $y'(0) = 1$, we find that $-2c_1 + c_2 = 1$. Solving for the constants, $c_1 = 0$ and $c_2 = 1$. Hence the specific solution is $y(t) = e^t$. It clearly increases without bound as $t \rightarrow \infty$.

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