

Now it is a matter of unravelling the changes of variable. First

$$z(t) = w(t) = t + 2Ct^2 = t + Bt^2.$$

Where we have set $B = 2C$. Then

$$y(t) = z(t) - \frac{1}{t} = t + Bt^2 - \frac{1}{t}.$$

This looks a little better if we use partial fractions to write

$$\begin{aligned} y(t) &= t + Bt^2 - \frac{1}{t} \\ &= \frac{2}{t} + \frac{2Bt}{1 + Bt^2} - \frac{1}{t} \end{aligned}$$

28. The model is $N' = kN/(1000 - N)$, where the proportionality constant k is yet to be determined. Since we know that when $N = 100$, the rate of infection is 90/day, we have $k = 100 \cdot 900 = 90$, we find that $k = 1 \times 10^{-3}$. Hence the model equation is $N' = N - N^2/1000$. This is a Bernoulli equation, with $n=2$. Accordingly we set $x = 1/N$. Then

$$\begin{aligned} x' &= -N'/N^2 \\ &= -1/N + 10^{-3} \\ &= -x + 10^{-3}. \end{aligned}$$

Solving this linear equation, we get $x(t) = 10^{-3}[1 + ce^{-t}]$. Hence $N(t) = 1/x(t) = 1000/[1 + ce^{-t}]$. At $t = 0$, $N = 20 = 1/[1 + C]$. Hence $C = 49$, and the solution is $N(t) = 1000/[1 + 49e^{-t}]$.

We have $N(t) = 0.9 \times 1000 = 900$ when $t = 6.089$ days.

29. Newton's law of cooling says the rate of change of temperature is equal to k times the difference between the current temperature and the ambient temperature. In this case the ambient temperature is decreasing from 0°C , and at a constant rate of 1°C per hour. Hence the model equation is $T' = -k(T + t)$, where we are taking $t = 0$ to be midnight. This is a linear equation. The solution is

$T(t) = -t + 1/k + Ce^{-kt}$. Since $T(0) = 31$, the constant evaluates to $C = 31 - 1/k$. The solution is $T(t) = -t + 1/k + (31 - 1/k)e^{-kt}$.

We need to compute the time t when $T(t) = 37$, using $k \approx 0.2231$ from Exercise 35 of Section 2. This is a nonlinear equation, but using a calculator or a computer we can find that $t \approx -0.8022$. Since $t = 0$ corresponds to midnight, this means that the time of death is approximately 11:12 PM.

30. The homogeneous equation, $y' = -3y$ has solution $y_h(t) = e^{-3t}$. We look for a particular solution in the form $yp(t) = v(t)y_h(t)$, where v is an unknown function. Since

$$\begin{aligned} y_t' &= v'y_h + v y_t' \\ &= v'y_h - 3v y_h \\ &= v'y_h - 3yp, \end{aligned}$$

and $y_t' = -3yp + 4$, we have $v' = 4/y_h = 4e^{3t}$. Integrating we see that $v(t) = 4e^{3t}/3$, and

$$y_p(t) = v(t)y_h(t) = \frac{4}{3}e^{3t} \cdot e^{-3t} = \frac{4}{3}.$$

The general solution is

$$y(t) = y_p(t) + C y_h(t) = \frac{4}{3} + Ce^{-3t}.$$

31. The homogeneous equation, $y' = -2y$ has solution $y_h(t) = e^{-2t}$. We look for a particular solution in the form $yp(t) = v(t)y_h(t)$, where v is an unknown function. Since

$$\begin{aligned} y_t' &= v'y_h + v y_t' \\ &= v'y_h - 2v y_h \\ &= v'y_h - 2yp, \end{aligned}$$

and $y_t' = -2yp + 5$, we have $v' = 5/y_h = 5e^{2t}$.

Integrating we see that $v(t) = 5e^{2t}/2$, and

$$y_p(t) = v(t)y_h(t) = \frac{5}{2}e^{2t} \cdot e^{-2t} = \frac{5}{2}.$$

The general solution is

$$y(t) = y_p(t) + C y_h(t) = \frac{5}{2} + Ce^{-2t}.$$

Polking Boggess Arnold Differential Equations Solutions Manual

John A Banks



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