

Problem 37

In each of Problems 34 through 37, construct a first order linear differential equation whose solutions have the required behavior as $t \rightarrow \infty$. Then solve your equation and confirm that the solutions do indeed have the specified property.

All solutions approach the curve $y = 4 - t^2$ as $t \rightarrow \infty$.

Solution

The rate of change of y will become $-2t$ as t gets big enough, so we choose

$$\begin{aligned} y' + y &= (-2t) + (4 - t^2) \\ &= 4 - 2t - t^2. \end{aligned}$$

This is a first-order linear inhomogeneous ODE, so it can be solved by multiplying both sides by an integrating factor I .

$$I = \exp\left(\int^t 1 \, ds\right) = e^t$$

Proceed with the multiplication.

$$e^t y' + e^t y = e^t (4 - 2t - t^2)$$

The left side can be written as $d/dt(Iy)$ using the product rule.

$$\frac{d}{dt}(e^t y) = e^t (4 - 2t - t^2)$$

Integrate both sides with respect to t .

$$\begin{aligned} e^t y &= \int^t e^s (4 - 2s - s^2) \, ds + C \\ &= \int^t 4e^s \, ds - \int^t 2se^s \, ds - \int^t s^2 e^s \, ds + C \\ &= 4e^t - \int^t 2se^s \, ds - \int^t s^2 \frac{d}{ds}(e^s) \, ds + C \\ &= 4e^t - \int^t 2se^s \, ds - \left[t^2(e^t) - \int^t (2s)(e^s) \, ds \right] + C \\ &= 4e^t - \cancel{\int^t 2se^s \, ds} - t^2 e^t + \cancel{\int^t 2se^s \, ds} + C \\ &= e^t (4 - t^2) + C \end{aligned}$$

Divide both sides by e^t to obtain the general solution for y .

$$y(t) = 4 - t^2 + \frac{C}{e^t}$$

Take the limit of both sides as $t \rightarrow \infty$.

$$\lim_{t \rightarrow \infty} y(t) = \lim_{t \rightarrow \infty} (4 - t^2) + \underbrace{\lim_{t \rightarrow \infty} \frac{C}{e^t}}_{= 0}$$

Therefore, all solutions approach the curve $y = 4 - t^2$ as $t \rightarrow \infty$.

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