

MATH198 Solution Sheet 3

1. Check whether the solutions listed below satisfy the differential equations, showing your working. A, B and a are constants.

$$(i) \quad \frac{dy}{dt} = -4y; \quad y = Ae^{-4t}$$

An easy one to start with.

$$\begin{aligned} y &= Ae^{-4t} \\ \Rightarrow \frac{dy}{dt} &= -4Ae^{-4t} \\ LHS &= \frac{dy}{dt} = -4Ae^{-4t}, \quad RHS = -4y = -4Ae^{-4t} \quad \Rightarrow LHS = RHS \checkmark \end{aligned}$$

The left-hand side and right-hand side are equal for all t , so the solution given was correct.

$$(ii) \quad 2x^2 \frac{d^2y}{dx^2} + x \frac{dy}{dx} - y = 3; \quad y = Ax + \frac{B}{\sqrt{x}} - 3$$

Check:

$$\begin{aligned} y &= Ax + Bx^{-\frac{1}{2}} - 3 \\ y' &= A - \frac{1}{2}Bx^{-\frac{3}{2}} \\ y'' &= \frac{3}{4}Bx^{-\frac{5}{2}} \\ \Rightarrow 2x^2 \frac{d^2y}{dx^2} + x \frac{dy}{dx} - y &= 2x^2 \left(\frac{3}{4}Bx^{-\frac{5}{2}} \right) + x \left(A - \frac{1}{2}Bx^{-\frac{3}{2}} \right) - \left(Ax + Bx^{-\frac{1}{2}} - 3 \right) \\ &= \left(\frac{3}{2}B - \frac{1}{2}B - B \right) x^{-\frac{1}{2}} + Ax - Ax + 3 = 3 \quad \checkmark \end{aligned}$$

$$(iii) \quad y y'' + (y' - y) y' = 0; \quad y = \sqrt{Ae^x + B}$$

$$\begin{aligned} y &= (Ae^x + B)^{\frac{1}{2}} \\ y' &= \frac{1}{2} (Ae^x + B)^{-\frac{1}{2}} Ae^x && \text{(Chain rule, } \frac{dy}{dx} = \frac{dy}{du} \frac{du}{dx}, \text{ with } u = Ae^x + B.) \\ y'' &= -\frac{1}{4} (Ae^x + B)^{-\frac{3}{2}} A^2 e^{2x} + \frac{1}{2} (Ae^x + B)^{-\frac{1}{2}} Ae^x && \text{(Product rule and chain rule)} \end{aligned}$$

(When you take the second derivative the product rule means that there are *two* terms - some people missed out the second term.)

$$\begin{aligned} y y'' + (y' - y) y' &= (Ae^x + B)^{\frac{1}{2}} \left[-\frac{1}{4} (Ae^x + B)^{-\frac{3}{2}} A^2 e^{2x} + \frac{1}{2} (Ae^x + B)^{-\frac{1}{2}} Ae^x \right] \\ &\quad + \left[\frac{1}{2} (Ae^x + B)^{-\frac{1}{2}} Ae^x - (Ae^x + B)^{\frac{1}{2}} \right] \frac{1}{2} (Ae^x + B)^{-\frac{1}{2}} Ae^x \\ &= -\frac{1}{4} (Ae^x + B)^{-1} A^2 e^{2x} + \frac{1}{2} Ae^x + \frac{1}{4} (Ae^x + B)^{-1} A^2 e^{2x} - \frac{1}{2} Ae^x \\ &= 0 \quad \checkmark \end{aligned}$$

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