

10. $y_1'' = 2$. We see that $t^2(2) - 2(t^2) = 0$. $y_2'' = 2t^{-2}$, with $t^2(y_2'') - 2(y_2) = 0$. Let $y_3 = c_1 t^2 + c_2 t^{-1}$, then $y_3'' = 2c_1 + 2c_2 t^{-3}$. It is evident that y_3 is also a solution.

13. No. Substituting $y = \sin(t^2)$ into the differential equation,

$$-4t^2 \sin(t^2) + 2 \cos(t^2) + 2t \cos(t^2)p(t) + \sin(t^2)q(t) = 0.$$

At $t = 0$, this equation becomes $2 = 0$ (if we suppose that $p(t)$ and $q(t)$ are continuous), which is impossible.

14. $W(e^{2t}, g(t)) = e^{2t}g'(t) - 2e^{2t}g(t) = 3e^{4t}$. Dividing both sides by e^{2t} , we find that g must satisfy the ODE: $g' - 2g = 3e^{2t}$. Hence $g(t) = 3te^{2t} + ce^{2t}$.

15. $W(f, g) = fg' - f'g = t \cos t - \sin t$, and $W(u, v) = -4fg' + 4f'g$. Hence $W(u, v) = -4t \cos t + 4 \sin t$.

16. We compute

$$\begin{aligned} W(a_1 y_1 + a_2 y_2, b_1 y_1 + b_2 y_2) &= \begin{vmatrix} a_1 y_1 + a_2 y_2 & b_1 y_1 + b_2 y_2 \\ a_1 y_1' + a_2 y_2' & b_1 y_1' + b_2 y_2' \end{vmatrix} = \\ &= (a_1 y_1 + a_2 y_2)(b_1 y_1' + b_2 y_2') - (b_1 y_1 + b_2 y_2)(a_1 y_1' + a_2 y_2') = \\ &= a_1 b_2 (y_1 y_2' - y_1' y_2) - a_2 b_1 (y_1 y_2' - y_1' y_2) = (a_1 b_2 - a_2 b_1)W(y_1, y_2). \end{aligned}$$

This now readily shows that y_3 and y_4 form a fundamental set of solutions if and only if $a_1 b_2 - a_2 b_1 \neq 0$.

18. The general solution is $y = c_1 e^{-3t} + c_2 e^{-t}$. $W(e^{-3t}, e^{-t}) = 2e^{-4t}$, and hence the exponentials form a fundamental set of solutions. On the other hand, the fundamental solutions must also satisfy the conditions $y_1(1) = 1$, $y_1'(1) = 0$; $y_2(1) = 0$, $y_2'(1) = 1$. For y_1 , the initial conditions require $c_1 + c_2 = e$, $-3c_1 - c_2 = 0$. The coefficients are $c_1 = -e^3/2$, $c_2 = 3e/2$. For the solution y_2 , the initial conditions require $c_1 + c_2 = 0$, $-3c_1 - c_2 = e$. The coefficients are $c_1 = -e^3/2$, $c_2 = e/2$. Hence the fundamental solutions are

$$y_1 = -\frac{1}{2}e^{-3(t-1)} + \frac{3}{2}e^{-(t-1)} \quad \text{and} \quad y_2 = -\frac{1}{2}e^{-3(t-1)} + \frac{1}{2}e^{-(t-1)}.$$

19. Yes. $y_1'' = -4 \cos 2t$; $y_2'' = -4 \sin 2t$. $W(\cos 2t, \sin 2t) = 2$.

20. Clearly, $y_1 = e^t$ is a solution. $y_2'' = (1+t)e^t$, $y_2' = (2+t)e^t$. Substitution into the ODE results in $(2+t)e^t - 2(1+t)e^t + te^t = 0$. Furthermore, $W(e^t, te^t) = e^{2t}$. Hence the solutions form a fundamental set of solutions.

24. Writing the equation in standard form, we find that $P(t) = \sin t / \cos t$. Hence the Wronskian is $W(r) = ce^{-\int (\sin t / \cos t) dt} = ce^{2 \ln |\cos t|} = c \cos^2 t$, in which c is some constant.

Boyce Linear Analysis Solutions

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