Problem 38

Consider the equation $y^{(4)} - y = 0$.

(a) Use Abel's formula [Problem 20(d) of Section 4.1] to find the Wronskian of a fundamental set of solutions of the given equation.

(b) Determine the Wronskian of the solutions $e^t, e^{-t}, \cos t, \text{ and } \sin t$.

(c) Determine the Wronskian of the solutions $\cosh t, \sinh t, \cos t, \text{ and } \sin t$. 

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