

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