## 10 ORDINARY DIFFERENTIAL EQU

In (23)–(26) verify whether the given ODE

- $(23) xy'' y' \sin x = xe^x.$
- $(24) \ y' + 2x \sin y = 1.$
- $(25) \ y'y'' xy = 2x.$
- $(26) \quad y'' + \sqrt{x} \, y = \ln x.$