Answer on Question #69652 – Math – Differential Equations

Question

Find the value of *m* so that the function $y = e^{mx}$ is a solution of the differential equation

y' + 2y = 0

Solution

 $y' = me^{mx}$ $me^{mx} + 2e^{mx} = 0$ $e^{mx}(m+2) = 0$ $e^{mx} \neq 0, \text{ so}$ m = -2

Answer: m = -2.

Answer provided by https://www.AssignmentExpert.com