## $Answer\ on\ question\ \#85724-Math-Differential\ Equations$

Let  $y(x) = C_1 e^x + C_2 e^{-x}$ . The condition of y``-y = 0 is satisfied for all x:  $y` = C_1 e^x - C_2 e^{-x}$ ,  $y`` = C_1 e^x + C_2 e^{-x} = y$ .

From a condition of y(0) = 0 we receive  $C_2 = -C_1$  and from y`(0) = 7 we receive  $2C_1 = 7$ . So,  $C_1 = 3.5$ ,  $C_2 = -3.5$ , hence  $y(x) = 3.5e^x - 3.5e^{-x}$ .