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From  $X'(1) = -X(1)$ , we find that  $-c_2\mu^2\sin\mu + c_2\mu\cos\mu = -c_2\mu\cos\mu - c_2\sin\mu$ . Hence  $\mu$  is a solution of the equation  $-\mu^2\sin\mu + \mu\cos\mu = -\mu\cos\mu - \sin\mu \Rightarrow 2\mu\cos\mu = (\mu^2 - 1)\sin\mu$ . Note that  $\mu = \pm 1$  is not a solution and  $\cos\mu = 0$  is not a possibility, since this would imply  $\sin\mu = 0$  and the two equations have no common solutions.

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## **Differential equation - Wikipedia**

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