

Part I Problems

Problem 1: a) Find a solution of $\dot{x} + 2x = e^{3t}$ of the form Be^{3t} . Then find the general solution.

b) Now do the same for the complex-valued differential equation $\dot{x} + 2x = e^{3it}$.

MIT OpenCourseWare
<http://ocw.mit.edu>

18.03SC Differential Equations
Fall 2011

For information about citing these materials or our Terms of Use, visit: <http://ocw.mit.edu/terms>.