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system dynamics deals with mathematical modeling and analysis of devices and processes for the purpose of understanding their time-dependent behavior. While other subjects, such as Newtonian dynamics and electrical circuit theory, also deal with

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The solution is  $x(t) = 0.25e^{-2t} + 0.25 + 0.5t$ .  $e^{-x} = C_1$ , but  $x(0) = 5$ , so  $C_1 = 5$ .  $x = 5t + C_2$ , but  $x(0) = 2$ , so  $C_2 = 2$ . Thus  $x = 5t + 2$ . © 2014 McGraw-Hill. This work is only for non-profit use by instructors in courses for which the textbook has been adopted. Any other use without publisher's consent is unlawful.

The solution is  $x(t) = 2e^{-3t} (0.0441 \cos 5t + 0.3735 \sin 5t) + 0.0882$  (continued on the next page)

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