

Problem 1

1. A satellite enters outer space after burning through the atmosphere. When entering outer space, the satellite is 1000°K . If outer space is 50°K , and after 5 hours, the satellite has cooled to 500°K .
- Set-up an initial value problem to describe the temperature of the satellite at any time.
 - Find a function for the temperature of the satellite.

SOLUTION

a)

$$\frac{dT}{dt} = k(T - T_a)$$

$$\boxed{\frac{dT}{dt} = k(50 - T)}$$

$$T(0) = 1000$$

$$T(5) = 500$$

b) $\frac{dT}{dt} = k(50 - T)$

$$\frac{1}{50 - T} \frac{dT}{dt} = k$$

$$\int \frac{1}{50 - T} \frac{dT}{dt} dt = \int k dt$$

Solution To Practice Problems Chapter 1hkd7e

JG Myers



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Solutions to Practice Problems Chapter 10, 2003 *Student Solutions Manual* Cindy Trimble, K. Elayn

Martin-Gay, 2006-08-03 The Student Solutions Manual is available as part of the Student Study Pack. It contains worked out solutions to odd numbered exercises from each section exercise set Practice Problems Mental Math exercises and all exercises found in the Chapter Review and Chapter Tests.

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