

## Problem 1

1. A satellite enters outer space after burning through the atmosphere. When entering outer space, the satellite is  $1000^{\circ}\text{K}$ . If outer space is  $50^{\circ}\text{K}$ , and after 5 hours, the satellite has cooled to  $500^{\circ}\text{K}$ .
- 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

**RM Cervero**



## **Solution To Practice Problems Chapter 1hkd7e:**

## Unveiling the Magic of Words: A Report on "**Solution To Practice Problems Chapter 1hkd7e**"

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