

The Atmospheric Greenhouse Effect and Global Warming
Short Course, March 2025
Indian Institute of Technology, Kharagpur
Homework 2

Due Saturday March 22

(Results will be discussed in class on March 22. Please come prepared. The instructor may call upon you to present the solution.)

1. The distance of Mars from the sun is 250 million kilometers. What is the solar constant for Mars?
2. Assuming that the surface of Mars is covered completely by granite rocks, calculate the equilibrium surface temperature of Mars in the absence of an atmosphere.