PROBLEM SET # 3
This problem set is intended to help you review some of the concepts discussed in class after the mid-term and in Chapter 10 of *Life in the Universe* by Bennett & Shostak.

**REMINDER:** Type your answers to all the questions! This will make it easier for your TA to read and grade your homework. *Handwritten homeworks will be docked 20%.*

**Problem 1. (1 point)**

B&S, Ch. 10, Q1, p. 356. What is a habitable zone, and how is the idea useful? Is a planet in the habitable zone necessarily habitable? Explain.

**Problem 2. (1 point)**

B&S, Ch. 10, Q2, p. 356. Describe TWO ways in which it may be possible to have habitability outside the habitable zone.

**Problem 3. (1 point)**

B&S, Ch. 10, Q39, p. 357. Are Habitable Zone Planets Common?

**Problem 4. (2 points)**

B&S, Ch. 10, Q42, p. 357. Planetary changes.