## Math 2326 - Introduction to Abstract Mathematics Assignment 27 - Due Friday, April 4

Problem 91: Establish the following set-theoretic equivalences.

a. For any reals a < b,  $(a, b) \sim (0, 1)$ .

b. 
$$\left(\frac{-\pi}{2}, \frac{\pi}{2}\right) \sim \mathbb{R}$$

**Problem 92:** Show that every infinite set X has an infinite countable subset.