

Turn in starred problems (and only those) on Monday 11/24/2008 or Monday 12/01/08.

Section 28

- 7(a)*, (b)*, (c), (d)

Section 30

- 1, 2*, 4, 5, 6, 7, 8, 10*, 11, 13, 14*

Supplemental exercise: This exercise is not to be turned in. It overlaps considerably with the above problems, and the answers to many of its parts are in Munkres or were worked in class.

(a) Verify all the properties in the table “Heritability of countability properties” in the class handout.

(b) Verify all the properties in the diagram “Relations of countability properties” in the class handout.