PMAT 2320 – Discrete Mathematics **Assignment #7**
Fall 2000

Instructions

- Answer each question completely; justify your answers.
- This assignment is due at 9:00 am on November 3, 2000.

1. Is the following statement true of false: if $A \subsetneqq B$ then $|A| < |B|$. Explain.

2. Exercise 2.3.9, except part (a).

3. Exercise 2.3.13, except parts (a) and (e).

4. For each of the following (a, b) pairs:

   i. Find the greatest common divisor, g of a and b.

   ii. Find m and n so that $g = ma + nb$.

   (a) $a = 17, b = 1234$

   (b) $a = 48, b = 126$

   (c) $a = 13356, b = 29988$