

Instructions

- Answer each question completely; justify your answers.
 - This assignment is tentatively due at 9:00 am on November 17, 2000.
1. For each of the following (a, b) pairs find the least common multiple, ℓ of a and b .
 - (a) $a = 321, b = 456$
 - (b) $a = 35, b = 539$
 - (c) $a = 87574, b = 8342$
 2. Find the unique prime factorisation of each of the following:
 - (a) 123
 - (b) 1573
 - (c) 6328
 - (d) 6537
 - (e) 263340
 3. Exercise 3.3.10. Note that, as defined in the text, f is not well-defined (what is $f(1)$?). To correct this, assume that we have $f : \mathbb{N} \setminus \{1\} \rightarrow \mathbb{N}$.
 4. Exercise 3.3.19.
 5. Exercise 3.3.27, except part (a).
 6. Exercise 3.3.31, except part (a).