PMAT 2320 – Discrete Mathematics **Assignment #6**
Fall 2000

Instructions

- Answer each question completely; justify your answers.
- This assignment is due at 9:00 am on October 27, 2000.

1. Define $f : \mathbb{Z} \to 2\mathbb{Z}$ by $f : a \mapsto 2a^3$.
   (a) Is f injective?
   (b) Is f surjective?
   (c) Find f^{-1}.
2. Exercise 2.2.1, except part (a).
3. Exercise 2.2.2.
4. Exercise 2.2.9.
5. Exercise 2.3.5.