Worksheet §1.1-1.2

- 1. Write the following sets in set-roster notation or interval notation, whichever is appropriate.
 - (a) $\{x \in \mathbb{Z} : 3 \le x < 7\}$
 - (b) $\{3x + 1 : 3 \le x < 7 \text{ and } x \in \mathbb{Z}\}$
 - (c) $\{x \in \mathbb{R} : 3 \le x < 7\}$
 - (d) $\{2x + 1 : 3 \le x < 7 \text{ and } x \in \mathbb{R}\}\$
- 2. Describe the set $\{\ldots, -7, -3, 1, 5, 9, \ldots\}$ in set-builder notation.
- 3. Describe the set $\{2, 3, 5, 9, 17, 33, \ldots\}$ in set-builder notation.
- 4. Compute $\#\{\emptyset, \{\emptyset\}\}$.