

- We typically set and fix a universal set U , we can then define:
- Given a propositional function on U , we define

$$A = \{x \in U : P(x) \text{ is true}\}.$$

Examples

- 1 $S = \{x \in \mathbb{Z} : \exists n \in \mathbb{Z}, n^2 = x\},$
- 2 $S = \{n^2 : n \in \mathbb{Z}\},$
- 3 $S = \{0, 1, 4, 9, 16, \dots\}.$