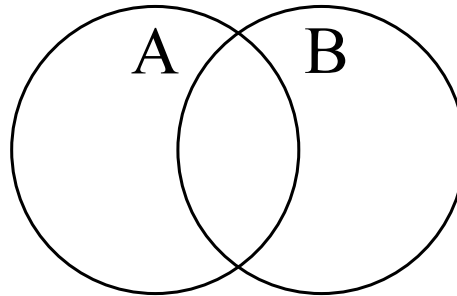I. **Intersection of Sets** (p.267): contains only elements common to both sets...

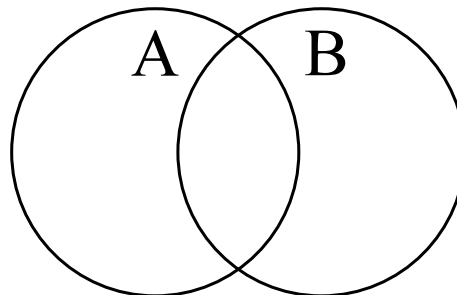$$A \cap B = \{x \mid x \, \varepsilon \, A \text{ and } x \, \varepsilon \, B\}$$

II. **Examples** (p.272): Exercises #2,4,12,22

III. **Union of Sets** (p.267): contains all elements found in either set...

$$A \cup B = \{x \mid x \, \varepsilon \, A \text{ or } x \, \varepsilon \, B\}$$

IV. Examples (p.272): Exercises #34,36,48,52

HW: p.272 / Exercises #1-53(every other odd)
　　　Read pp.275-282 (section 4.3)