

Eighth lecture

- Remainder

$$|A| < |\mathcal{P}(A)| \text{ for all sets } A$$

$$\aleph_0 < \aleph_1 < \aleph_2 < \dots$$

- Induction and recursion

Strong induction

Well-founded relations

\mathcal{R} -induction and \mathcal{R} -recursion

- \mathcal{O} , the ordinals

Informally

Properties

Ordinals and well-orders

Cardinals