

Thursday, November 19, 2009

Q1]. . . Define what it means for a set A to be *countable*.

Define what it means for two sets A and B to have the same cardinality.

Say whether each of the following sets are countable or uncountable.

(1) \mathbb{Q}

(2) \mathbb{R}

(3) The set of irrational numbers.

(4) The set of all points in the cartesian plane.

(5) The set of all functions from \mathbb{R} to \mathbb{R} .