

Name _____ Transitions, Quiz 5

Define a relation R on the integers via:

aRb iff a and b have the same digit in the 10's place.

1) Give five examples of pairs of numbers that are related.

2) Give five examples of pairs of numbers that are not related.

3) Prove that R is an equivalence relation.

4) Write down one equivalence class.

5) Write down the collection of all equivalence classes.