Relation

Kota, Rajasthan
CORE ACADEMY
Enhancing ability to learn & Express

Challenging Problems (to be answered in comment box……)

1. Find the domain and range of the relation R given by

   $R = \{(x, y) : y = x + \frac{6}{x}, where\ x, y \in N\ and\ x < 6\}.$

2. $If\ (A \times B) \cap (B \times A) = \{(0,1), (0,2), (1,1), (1,2), \ldots\ldots 9\ pairs\}\ then\ write\ A \cap B.$

3. How many different relations can be defined in set $A = \{0,1,2\}$? where each relation has 8 elements.

4. If a relation S on R (set of real numbers) is defined as

   $S = \{(x, y): x\ is\ divisible\ by\ y\}$, is every element of set R related to itself? Answer as YES or NO.