

Question:

Consider the set  $A = \{1, 2, 3, 4, 5\}$  and the set  $B = \{2, 3, 5, 7, 11\}$ .

Define the following sets:

$A \cup B$  (the union of sets A and B)

$A \cap B$  (the intersection of sets A and B)

$A \times B$  (the Cartesian product of sets A and B)