

Answer on Question #77152 – Math – Discrete Mathematics

Question

Let $U = \{-8, -7, \dots, 1, 0, 1, \dots, 12\}$

$A = \{x = -2 < x < 3\}$

$B = \{x: -8 < x < 5\}$

$C = \{x: 0 < x < 12\}$

Find:

1. $A \cup B$

2. $A \cap B$

3. A

4. $B \setminus A$

Solution

Let N be the difference of sets, then

1) $A \cup B = \{-7, -6, -5, -4, -3, -2, -1, 0, 1, 2, 3, 4\}$

2) $A \setminus B = \emptyset$

3) $A = \{-1, 0, 1, 2\}$

4) $B \setminus A = \{-7, -6, -5, -4, -3, -2, 3, 4\}$