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Programming Assignment 2

Go through these lecture notebooks before attempting the assignment.

Click this link to download the programming assignment for topic 2 and complete the following problems.

Q1

1/1 point (graded)

Define \boldsymbol{A} , \boldsymbol{B} , and \boldsymbol{U} as follows:

$$A = \{-6, 3, 4, 5\}$$

$$B = \{-6, 5, 13\}$$

$$U = A|B|\{12, -2, -4\}$$

Which of the following is the correct output for complement of union(A, B, U)

$$\bigcirc \{-6, -2, 3, 4, 13\}, \{-6, -2, 4, 12\}$$
 $\bigcirc \{-4, -2\}, \{-6, -4, 3, 5, 13\}$

$$\bigcirc \ \{-4,-2\}, \{-6,-4,3,5,13\}$$

$$\circ$$
 {-6, 3, 4, 5, 13}, {-4, -2, 12} \checkmark

Submit

You have used 1 of 2 attempts

Q2

1/1 point (graded)

Like before, define $m{A}$, $m{B}$, and $m{U}$ as follows:

$$A = \{-6, 3, 4, 5\}$$

$$B=\{-6,5,13\}$$

$$U = A|B|\{12, -2, -4\}$$

Which of the following is the correct output for intersection of complements(A, B, U)

$$\bigcirc \{-6, -2, 3, 4, 13\}, \{-4, -2, 12, 13\}$$

$$\circ$$
 $\{-4, -2, 12, 13\}, \{-4, -2, 12\}$

$$\bigcirc \{-4, -2, 12\}, \{-4, -2, 12, 13\}$$

Submit

You have used 1 of 2 attempts

Q3

1/1 point (graded)

Define A, B, S, and T as follows:

$$A=\{5\}$$

$$B=\{5\}$$

$$S=\{-1,0\}$$

$$T = \{0\}$$

Which of the following is the correct output for product_of_unions(A, B, S, T)

- $\bigcirc (\{5,-1\},\{5,0\}),\{5\}$
- \bigcirc {5}, ({5, -1}, {5, 0})

Submit

You have used 1 of 2 attempts

Q4

1/1 point (graded)

Again, define A, B, S, and T as follows:

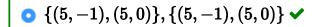
$$A = \{5\}$$

$$B = \{5\}$$

$$S=\{-1,0\}$$

$$T = \{0\}$$

Which of the following is the correct output for union_of_products(A, B, S, T)



- $\bigcirc \{5,-1\},\{5,0\}$
- \bigcirc (5, -1), (5, 0)

Submit

You have used 1 of 2 attempts

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Q4: I diasgree...

We were asked to return the answer as $A \cup B$, $(A \cup B) \times (S \cup T)$ --not the other way around. The correct answer is $(\{5\}, \{(5, -1), (5, 0)\})$.

? Exercies 2.1

Homework topic 2 notebook says "Read the notebook on sets before attempting these exercises" Where do i find this thanks

Hi The code below is my answer to exercise 2.1 if I was wrong please help me. def product of unions(A, B, S, T): union A B = A | B union S T = S | B product un...

? Thanks for the advice and sorry if being dumb but couldn't find this additional notebook and a bit stuck on getting started with python Thanks

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