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Programming Assignment

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complement_of_union

1/1 point (graded)

Define A , B , and 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)`

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

☐ $\{-4, -2\}\{-6, -4, 3, 5, 13\}$

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

Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

intersection_of_complements

1/1 point (graded)

Like before, define A , B , and U as follows:

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

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

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

Which of the following is the correct output for

`intersection_of_complements(A, B, U)`

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

☒ $\{-4, -2, 12, 13\}, \{-4, -2, 12\}$ ✓

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

Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

product_of_unions

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)`

☒ $\{5\}, \{(5, -1), (5, 0)\}$ ✓

☐ $(\{5, -1\}, \{5, 0\}), \{5\}$

☐ $\{5\}, (\{5, -1\}, \{5, 0\})$

Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

union_of_products

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)`

☒ $\{(5, -1), (5, 0)\}, \{(5, -1), (5, 0)\}$ ✓

☐ $\{5, -1\}, \{5, 0\}$

☐ $(5, -1), (5, 0)$

Submit

You have used 1 of 2 attempts

✓ Correct (1/1 point)

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