Programming Assignment

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complement_of_union

1 point possible (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 0 of 2 attempts

Answers are displayed within the problem

intersection_of_complements

1 point possible (graded)
Like before, 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 `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 0 of 2 attempts

Answers are displayed within the problem

product_of_unions

1 point possible (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)`

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

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You have used 0 of 2 attempts

Answers are displayed within the problem

union_of_products

1 point possible (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 0 of 2 attempts

Answers are displayed within the problem