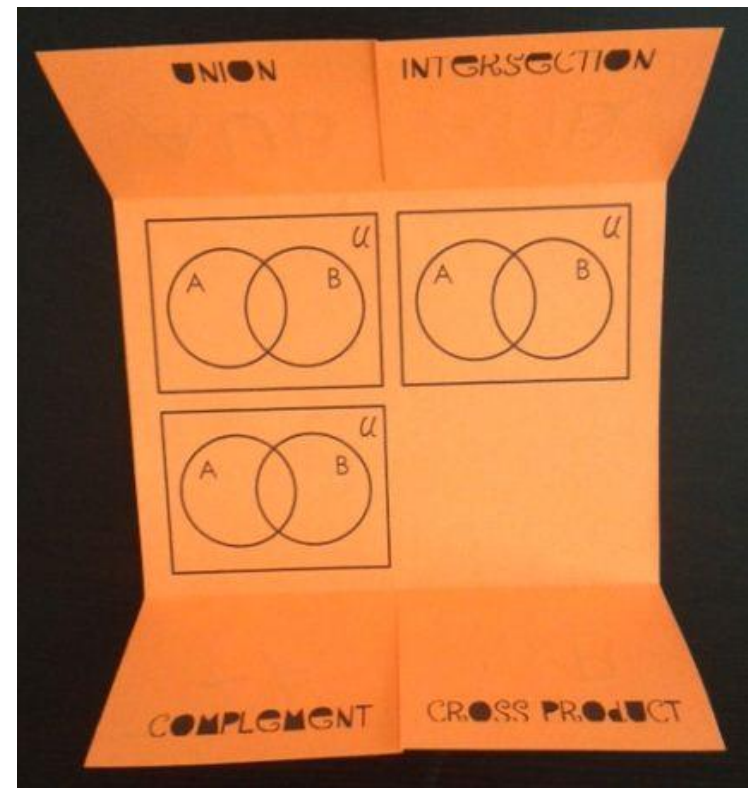
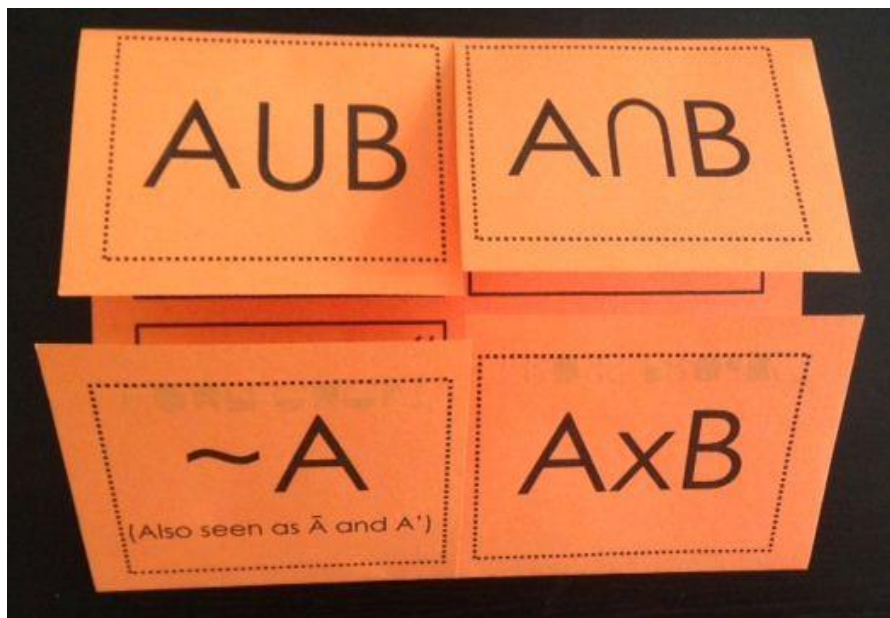


SET THEORY



$\sim A$

(Also seen as \bar{A} and A')

 $A \times B$ $\sim A$

(Also seen as \bar{A} and A')

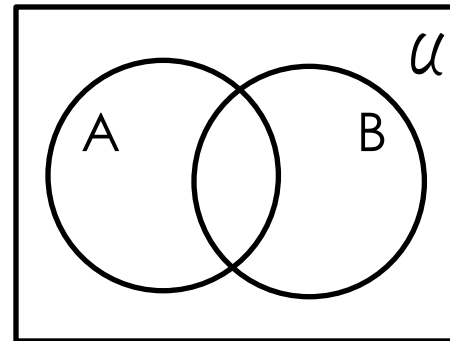
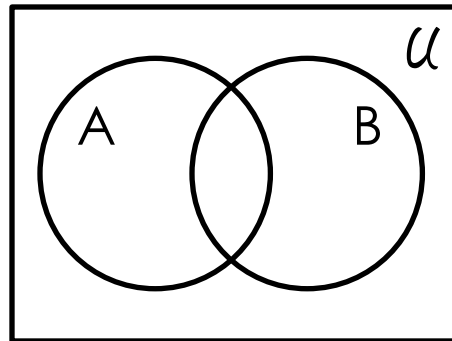
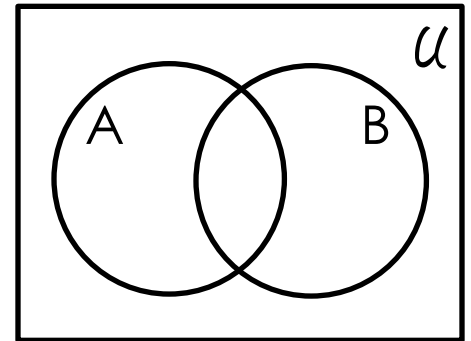
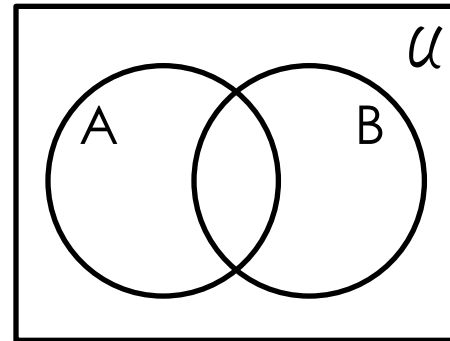
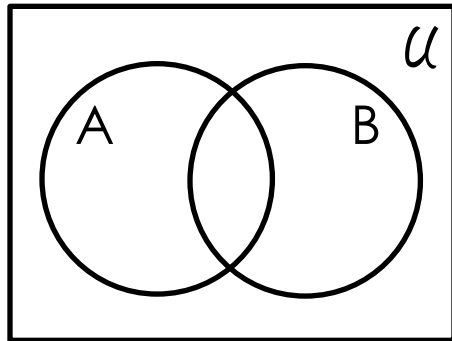
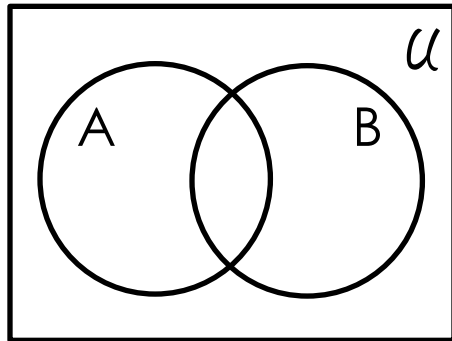
 $A \times B$ $A \cup B$ $A \cap B$ $A \cup B$ $A \cap B$

UNION

INTERSECTION

UNION

INTERSECTION



COMPLEMENT

CROSS PRODUCT

COMPLEMENT

CROSS PRODUCT

$\sim A$

(Also seen as \bar{A} and A')

 $A \times B$ $\sim A$

(Also seen as \bar{A} and A')

 $A \times B$ $A \cup B$ $A \cap B$ $A \cup B$ $A \cap B$

UNION

The set of all elements that appear in Set A OR Set B

INTERSECTION

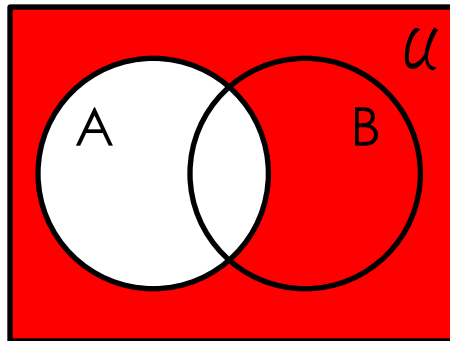
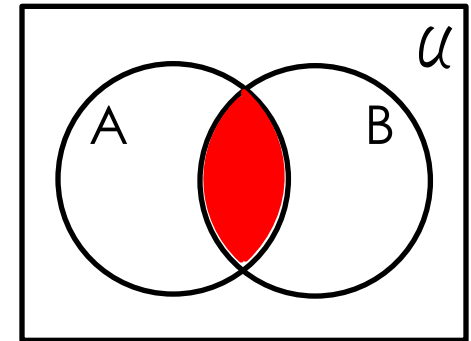
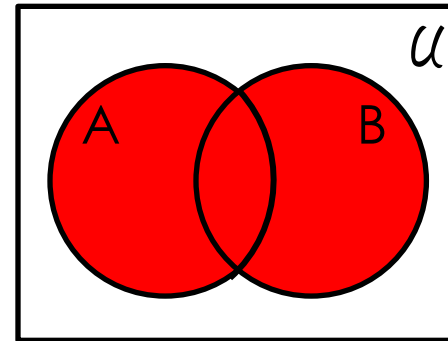
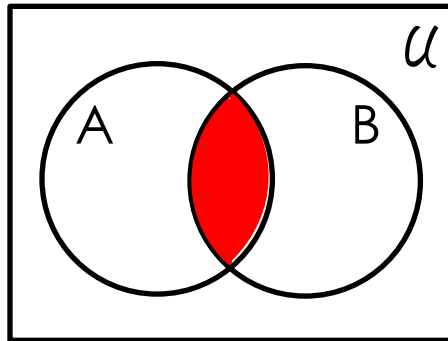
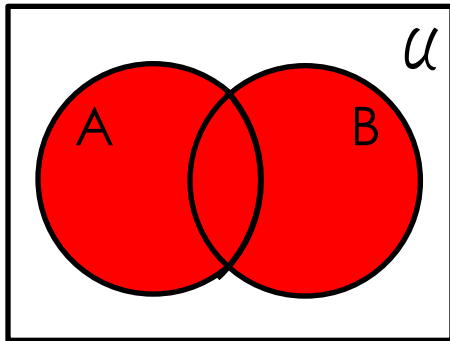
The set of all elements that appear in BOTH Set A AND Set B

UNION

The set of all elements that appear in Set A OR Set B

INTERSECTION

The set of all elements that appear in BOTH Set A AND Set B

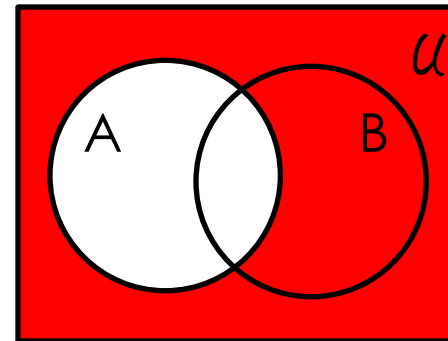


Set A: $\{x_1, x_2, x_3\}$
Set B: $\{y_1, y_2\}$

$A \times B: \{(x_1, y_1), (x_1, y_2), (x_2, y_1), (x_2, y_2), (x_3, y_1), (x_3, y_2)\}$

The set of all elements in U , that are NOT in Set A. (Everything in the Universal set except for the elements in Set A.

All possible ordered pairs of the form (x, y) , where x is an element of Set A and y is an element of Set B.



Set A: $\{x_1, x_2, x_3\}$
Set B: $\{y_1, y_2\}$

$A \times B: \{(x_1, y_1), (x_1, y_2), (x_2, y_1), (x_2, y_2), (x_3, y_1), (x_3, y_2)\}$

The set of all elements in U , that are NOT in Set A. (Everything in the Universal set except for the elements in Set A.

All possible ordered pairs of the form (x, y) , where x is an element of Set A and y is an element of Set B.

COMPLEMENT

CROSS PRODUCT

COMPLEMENT

CROSS PRODUCT

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Directions

Step 1: Photo copy the two pages (2 & 3) front to back so that the information faces in opposite directions, as shown to the right:



Step 2: Cut the paper in half (each page creates two foldables)

Step 3: Fold in half (to find the center).

Step 4: Fold the top half down to the center crease & fold the bottom half up to that same crease.

Step 5: Cut in between the dotted rectangles on the front, creating 4 flaps.

