

Problem 1 Consider the following set of ordered pairs that represent input-output values of a relation (ie for an ordered pair $(3, 7)$ the ‘input’ is 3 and the ‘output’ is 7);

$$(7, -7), (-8, -2), (10, -2), (-3, -4), (5, -8), (-9, -9), (5, 9), (-1, 0),$$

Is this relation a function? Enter the number 1 if the above represents a function, or 0 if it does not.

Feedback(attempt): Remember that, in order for something to be a function, it needs to have exactly 1 output for any given input. This means that if the same input appears more than once with a different associated output [that is, if you have two ordered pairs with the same x value but different y values] then the underlying relation cannot be a function.

Problem 2 Consider the following set of ordered pairs that represent input-output values of a relation (ie for an ordered pair $(3, 7)$ the ‘input’ is 3 and the ‘output’ is 7);

$$(-10, 6), (-2, -6), (8, 1), (-2, 2), (0, -8), (-8, 4), (9, 10), (10, 8),$$

Is this relation a function? Enter the number 1 if the above represents a function, or 0 if it does not.

Feedback(attempt): Remember that, in order for something to be a function, it needs to have exactly 1 output for any given input. This means that if the same input appears more than once with a different associated output [that is, if you have two ordered pairs with the same x value but different y values] then the underlying relation cannot be a function.

Problem 3 Consider the following set of ordered pairs that represent input-output values of a relation (ie for an ordered pair $(3, 7)$ the ‘input’ is 3 and the ‘output’ is 7);

$$(10, -5), (1, -8), (3, 2), (-3, 3), (-10, 5), (8, 6), (8, 1), (-9, 5),$$

Is this relation a function? Enter the number 1 if the above represents a function, or 0 if it does not.

Functions Practice 1

Feedback(attempt): Remember that, in order for something to be a function, it needs to have exactly 1 output for any given input. This means that if the same input appears more than once with a different associated output [that is, if you have two ordered pairs with the same x value but different y values] then the underlying relation cannot be a function.
