



Intermediate

Relations & Functions

Algebra

RELATIONS

- Relations:** Relationship between a set of values or ordered pairs. A relation:
 - Can be displayed in a table, by mapping, or in a graph
 - Is a list or set of ordered pairs
- In an ordered pair such as (x, y) , x is the input value and y is the output value.
 - **Domain:** The set of input values, or x -values.
 - **Range:** The set of output values, or y -values.

EX: What are the domain and range of the relation $\{(-2, 1), (0, 5), (3, -1), (6, 2), (-2, 3)\}$?

D: $\{-2, 0, 3, 6\}$

The domain is the set of x -values. Notice the ordered pairs $(-2, 1)$ and $(-2, 3)$ each have an x -value of -2 , which is only listed once in the domain.

R: $\{-1, 1, 2, 3, 5\}$ The range is the set of y -values.

EX: Make a table of the relation $\{(-2, 1), (0, 5), (3, -1), (6, 2), (-2, 3)\}$.

Write the first number in each ordered pair in the column labeled x .

Write the second number in each ordered pair in the column labeled y , across from its corresponding x -value.

EX: Make a mapping of the relation $\{(-2, 1), (0, 5), (3, -1), (6, 2), (-2, 3)\}$.

Write the set of x -values under domain.

Write the set of y -values under range.

Draw an arrow from each x -value to its corresponding y -value.

EX: Make a graph of the relation $\{(-2, 1), (0, 5), (3, -1), (6, 2), (-2, 3)\}$.

Graph a point for each ordered pair in the relation.

FUNCTIONS

- Function:** A relation in which each input value of the domain has only one output value of the range.
- To determine if a relation is a function, check that each input value is paired with exactly one output value. To do this, inspect the ordered pairs and make a table, a mapping, or a graph.
 - **By making a mapping:**
 - If each input has an arrow pointing to only one output, the relation is a function.
 - If there is any value of the domain that has an arrow pointing to more than one value of the range, the relation is not a function.
 - **Using the Vertical Line Test:** Graph the function.
 - If no vertical line intersects the graph more than once, the graph is a function.
 - If there is a vertical line that intersects the graph more than once, the graph is not a function.

EX: Is the relation $\{(1, 4), (5, -2), (1, -7), (9, 8), (3, -1)\}$ a function?

Make a mapping to verify. Each input value is paired with only one output value, so the relation is a function.

The mapping verifies that the relation is a function because each value of the domain has an arrow pointing to only one value of the range.

EX: Is the relation $\{(-2, 3), (3, 1), (6, 3), (-2, -1), (1, 4)\}$ a function? Make a graph to verify.

The input value of -2 is paired with the output values of -1 and 3 , so the relation is not a function.

The graph verifies that the relation is not a function because there is a vertical line that intersects the graph more than once, at $(-2, -1)$ and $(-2, 3)$.

EVALUATING FUNCTIONS

Function notation: The way a function is written.

EX: $f(x) = 2x - 1$, where f is the name of the function, x is the input, and $2x - 1$ is the rule.

This function is read as f of x equals two times x minus one.

Function notation is a way to show the relationship between corresponding values in the domain and range.

To evaluate a function in terms of x , substitute for x and then simplify.

There are many types of functions, such as linear and nonlinear functions. Both linear and nonlinear functions can be evaluated.

EX: If $f(x) = 3x + 5$, what is $f(2)$?

$f(2) = 3(2) + 5$ Substitute 2 for x .

$f(2) = 6 + 5$ Multiply.

$f(2) = 11$ Add.

EX: If $f(x) = -2x^2 - 4x - 1$, what is $f(-3)$?

$f(-3) = -2(-3)^2 - 4(-3) - 1$ Substitute -3 for x .

$f(-3) = -2(9) - 4(-3) - 1$ Evaluate the exponent.

$f(-3) = -18 + 12 - 1$ Multiply.

$f(-3) = -7$ Add and subtract.

EX: If $f(x) = x^2 + 2x^2 - 3x - 8$, what is $f(1)$?

$f(1) = (1)^2 + 2(1)^2 - 3(1) - 8$ Substitute 1 for x .

$f(1) = 1 + 2(1) - 3 - 8$ Evaluate the exponents.

$f(1) = 1 + 1 - 3 - 8$ Multiply.

$f(1) = -9$ Add and subtract.

EX: If $f(x) = \sqrt{x+2} - 7$, what is $f(14)$?

$f(14) = \sqrt{14+2} - 7$ Substitute 14 for x .

$f(14) = \sqrt{16} - 7$ Add.

$f(14) = 4 - 7$ Evaluate the square root.

$f(14) = -3$ Subtract.

OPERATIONS ON FUNCTIONS

Operations can be applied to functions just as with real numbers.

Functions can be added, subtracted, multiplied, and divided.

The table below shows some function operations.

Addition of functions: $(f + g)(x) = f(x) + g(x)$

Multiplication of functions: $(f \cdot g)(x) = f(x) \cdot g(x)$

Subtraction of functions: $(f - g)(x) = f(x) - g(x)$

Division of functions: $(f \div g)(x) = \frac{f(x)}{g(x)}$, $g(x) \neq 0$

EX: If $f(x) = 3x^2 + 2x + 7$ and $g(x) = -8x - 2$, what is $(f + g)(x)$?

$(f + g)(x) = f(x) + g(x)$

$(f + g)(x) = (3x^2 + 2x + 7) + (-8x - 2)$

$(f + g)(x) = 3x^2 + (2x - 8x) + (7 - 2)$

$(f + g)(x) = 3x^2 - 6x + 5$

EX: If $f(x) = -4x^2 - x^2 + 9$ and $g(x) = -2x^2 - 10$, what is $(f - g)(x)$?

$(f - g)(x) = f(x) - g(x)$

$(f - g)(x) = (-4x^2 - x^2 + 9) - (-2x^2 - 10)$

$(f - g)(x) = -4x^2 - x^2 + 9 + 2x^2 + 10$

$(f - g)(x) = -4x^2 + (-x^2 + 2x^2) + (9 + 10)$

$(f - g)(x) = -4x^2 - x^2 + 19$

EX: If $f(x) = x^2 - 1$ and $g(x) = 3x + 2$, what is $(f \cdot g)(x)$?

$(f \cdot g)(x) = f(x) \cdot g(x)$

$(f \cdot g)(x) = (x^2 - 1)(3x + 2)$

$(f \cdot g)(x) = x^2(3x) + x^2(2) + (-1)(3x) + (-1)(2)$

$(f \cdot g)(x) = 3x^3 + 2x^2 - 3x - 2$

EX: If $f(x) = x^2 - 4$ and $g(x) = x + 2$, what is $\left(\frac{f}{g}\right)(x)$?

$\left(\frac{f}{g}\right)(x) = \frac{f(x)}{g(x)}$

$\left(\frac{f}{g}\right)(x) = \frac{x^2 - 4}{x + 2}$

$\left(\frac{f}{g}\right)(x) = \frac{(x+2)(x-2)}{x+2}$ Factor the numerator.

$\left(\frac{f}{g}\right)(x) = x - 2$ Divide out common factors.

COMPOSITION OF FUNCTIONS

One function is dependent on another function and therefore one function is substituted for another, $f(g(x))$:

- Is a composition of functions where $g(x)$ is substituted for x in $f(x)$

- Is read as f of g of x

- Can be written as $(f \circ g)(x)$

Note: Be sure not to confuse the symbol for a composition of functions, $\circ$, with the symbol for multiplication of functions, $\cdot$.

EX: If $f(x) = -x^2 + 5$ and $g(x) = x - 3$, what is $f(g(x))$?

$f(g(x)) = f(x - 3)$ Substitute $x - 3$ for $g(x)$.

$f(g(x)) = -(x - 3)^2 + 5$ Substitute $x - 3$ for x in $f(x)$.

$f(g(x)) = -x^2 - 6x + 9 + 5$ FOIL method.

$f(g(x)) = -x^2 + 6x - 4$ Distribute -1 .

$f(g(x)) = -x^2 + 6x - 4$ Combine like terms.

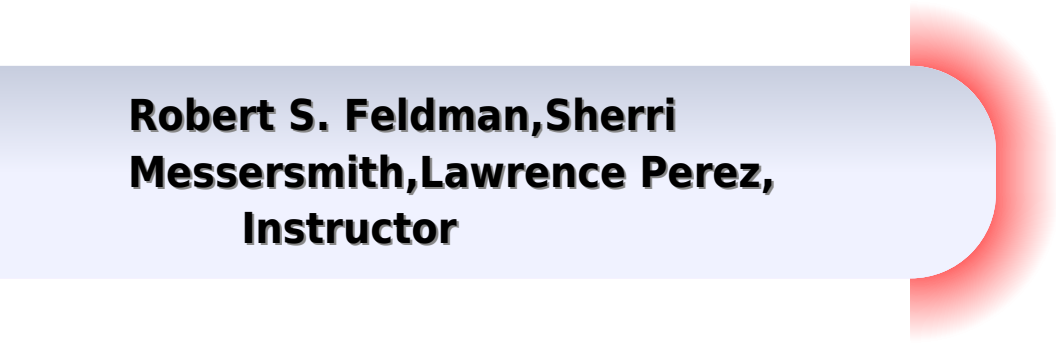
EX: If $f(x) = x^2 - 1$ and $g(x) = x + 11$, what is $(g \circ f)(x)$?

$(g \circ f)(x) = g(f(x))$ Composition of functions.

A function can be described by a rule, which is often written as an expression.

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