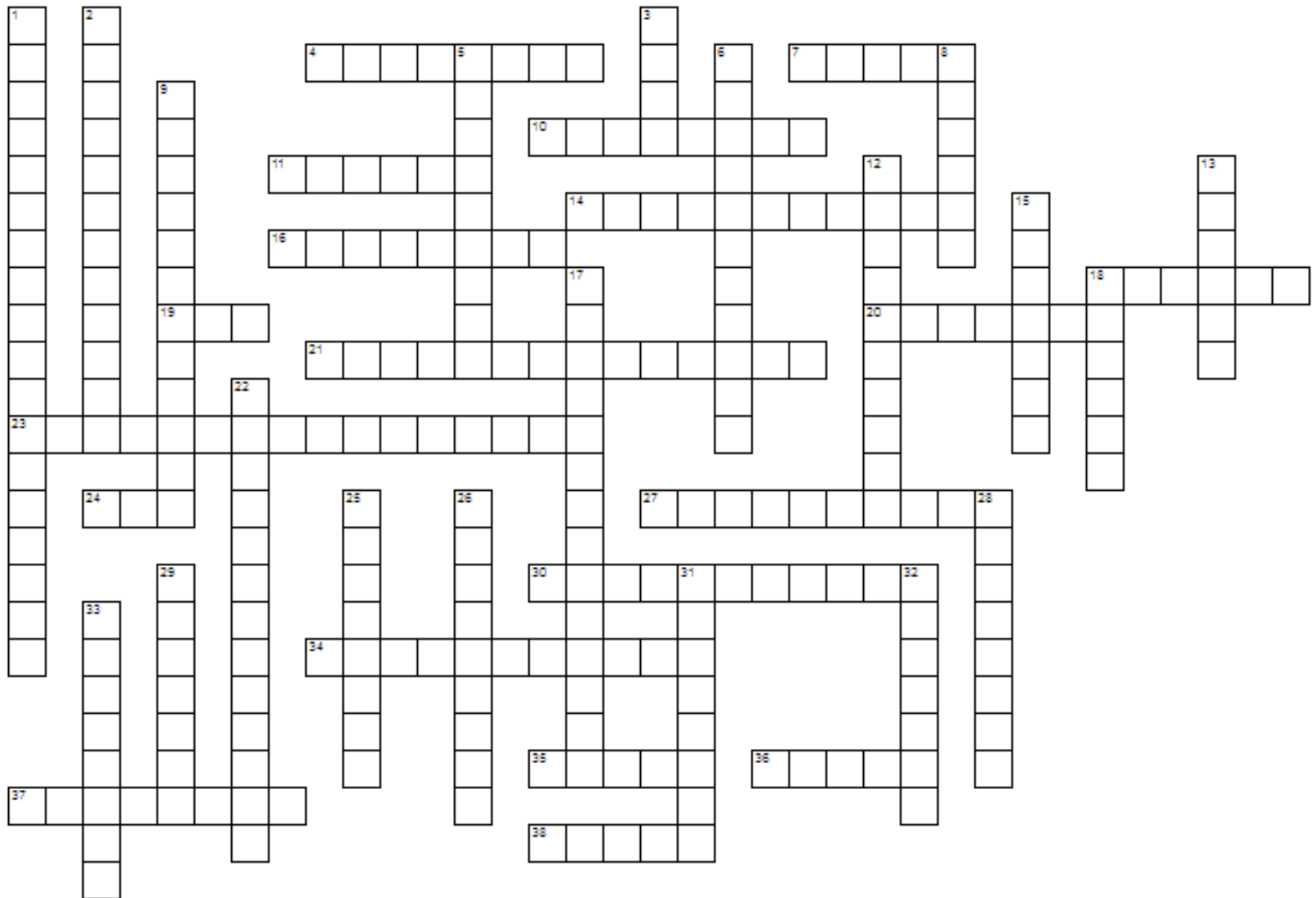


Mathematics Vocabulary 101

PC Functions



Simplify

Term

Number System

Expand

Reduce

Symmetry

Intersection

Union

Solve

Factor

Radical

Function Notation

Sum

Difference

Quotient

Product

Cancel out - What do you mean? What should we call this?

Constant

End behavior

Roots

One – to – one

Consecutive

Rationalize

Set

Elements

Corresponding

Like terms

Extrema

Parent function

Transformation

Composition

Leading coefficient

Sequence

Finite

Converge/Diverge

Series

Sigma

Arithmetic

ACROSS

- 4 To use the rules of arithmetic and Algebra to rewrite an expression as simple as possible.
- 7 Find all solutions to an equation, inequality, or a system of equations and/or inequalities.
- 10 A balanced arrangement of parts of a figure on opposite sides of a point, line or plane.
- 11 To bring down the size, quantity, or value of intensity.
- 14 Combining two functions by substituting one function's formula in place of each independent variable in the other function's formula.
- 16 The result of dividing two numbers or expressions.
- 18 Describes a set which does not have an infinite number of elements.
- 19 A group of numbers, variables, geometric figures, or just about anything. Written using these braces {}.
- 20 The minima and maxima of a function. May be either relative (local) or absolute (global).
- 21 Operations that alter the form of a figure.
- 23 A precise way of giving information about a function in terms of its independent variable.
- 24 The result of adding a set of numbers or algebraic expressions.
- 27 Calculations involving numbers. This typically involves the basic operations addition, subtraction, multiplication, division, and exponents.
- 30 The direction of the graph as x approaches negative and positive infinity.
- 34 Following on from each other in order. Next to or adjacent in Geometry.
- 35 Combining the elements of two or more sets. Indicated by the \cup (cup) symbol.
- 36 A Greek letter used to represent sum in a series (Σ).
- 37 A term or expression with no variables.
- 38 A solution to an equation of the form $f(x) = 0$. May be real or complex.

DOWN

- 1 The coefficient of a polynomial's leading term.
- 2 The elements two or more sets have in common. Indicated by the \cap (cap) symbol.
- 3 Parts of an expression or series separated by addition or subtraction or the parts of a sequence separated by commas.
- 5 Terms which have the same variables and corresponding powers and/or roots. May be combined with addition or subtraction.
- 6 The process by which a fraction is rewritten so that the denominator contains only rational numbers.
- 8 To multiply out the parts of an expression
- 9 An organization of numbers based on specific properties that connect all numbers in that subset.
- 12 The result of subtracting two numbers or expressions.
- 13 The sum of the terms of a sequence.
- 15 To fail to approach a finite limit.
- 17 A set of basic functions used as building blocks for more complicated functions.
- 18 A number or quantity that when multiplied with another produces a given number or expression.
- 22 Two features that are situated the same way in different objects.
- 25 A function for which every element of the range of the function corresponds to exactly one element of the domain.
- 26 To balance or neutralize equivalent terms on opposite sides of an equation or inequality.
- 28 To approach a finite limit.
- 29 The result of multiplying a set of numbers or expressions.
- 31 A number, letter, point, line, or any other object contained in a set.
- 32 The taking of a root of a number or expression.
- 33 A list of numbers set apart by commas. May be arithmetic or geometric.