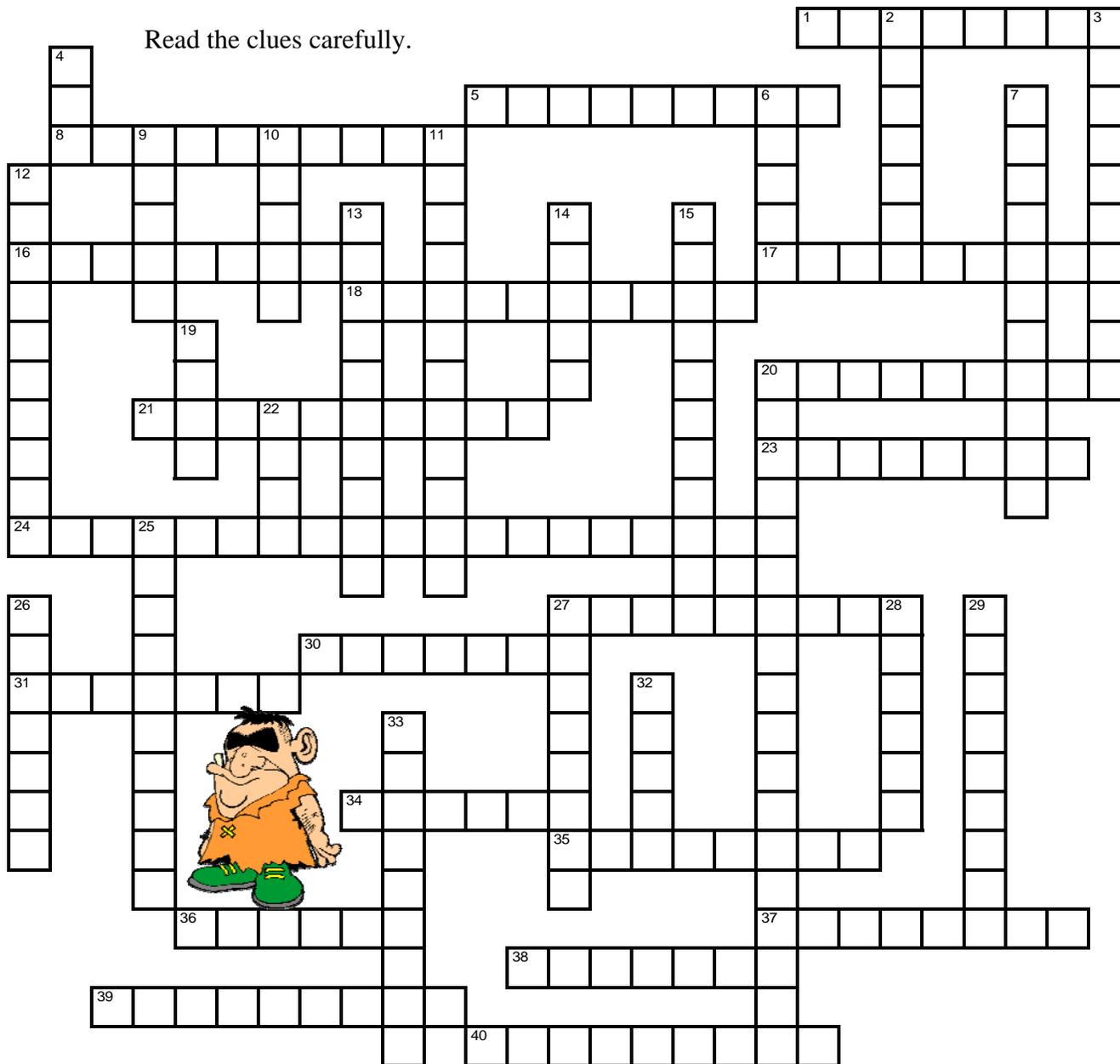


PreCalculus Vocabulary

Name _____

Read the clues carefully.



Across

- 1 A formula useful for finding powers and roots of complex numbers is known as ____'s Theorem.
- 5 A function made up of a finite number of continuous pieces is described as ____ defined.
- 8 To find each successive term in an arithmetic sequence, add the common ____.
- 16 A method of mathematical proof typically used to establish that a given statement is true of all natural numbers.
- 17 A line that approaches a given curve arbitrarily closely.
- 18 A function with a connected graph possesses ____.
- 20 A technique for determining the number of positive or negative roots of a polynomial is known as _____' Rule of Signs.
- 21 A function whose graph moves downward as it is followed from left to right.

- 23 A graph such that every x in the domain is mapped to exactly one y -value.
- 24 A method of solving a quadratic equation. (3 words)
- 27 A shorthand method of polynomial division is known as ___ division.
- 30 A part of a graph which looks like all or part of an upside-down bowl is described as ___ downward.
- 31 The lowest point in a particular section of a graph is referred to as a relative ____.
- 34 The x -values that can be used in a function.
- 35 A polar curve that is somewhat heart shaped.
- 36 A set of basic functions used as building blocks for more complicated functions are referred to as ___ functions.
- 37 The function $y = x$.
- 38 The function obtained by switching the x - and y -variables in a function.
- 39 The line used to term the locus of points for a parabola.
- 40 $3 + 4i$ and $3 - 4i$ are referred to as ___ terms.

Down

- 2 The highest point in a particular section of a graph is referred to as a relative ____.
- 3 A root that appears in an equation during the process of solving another equation which is not a solution of the equation to be solved.
- 4 For function f , $f(-x) = -f(x)$.
- 6 The Greek letter used to indicate "sum".
- 7 $f(g(x))$ where f and g are functions.
- 9 A parabola is the locus of points such that the distance to the ___ equals the distance to the directrix.
- 10 To find each successive term in a geometric sequence, multiply by the common ____.
- 11 In an ellipse, this number is between 0 and 1, in a parabola it is 1 and in a circle it is 0.
- 12 A sequence such as 3, 6, 9, 12, 15, ...
- 13 A function whose graph moves upward as it is followed from left to right.
- 14 y -values that are used by a function.
- 15 The number associated with a square matrix.
- 19 For function f , $f(-x) = f(x)$.
- 20 The name given to $\frac{f(x+h) - f(x)}{h}$. (2 words)
- 22 The location where an equation crosses the x -axis.
- 25 The sum of a finite number of terms of a sequence. (2 words)
- 26 A number such as $5 + 7i$.
- 27 A list of numbers set apart by commas, such as 2, 4, 6, 8, 10, ...
- 28 A method for solving a linear system of equations using determinants is called ___'s Rule.
- 29 The sequence 1, 1, 2, 3, 5, 8, 13,
- 32 Coordinates of the form (r, θ) .
- 33 A sequence such as 4, 8, 16, 32, 64, ...