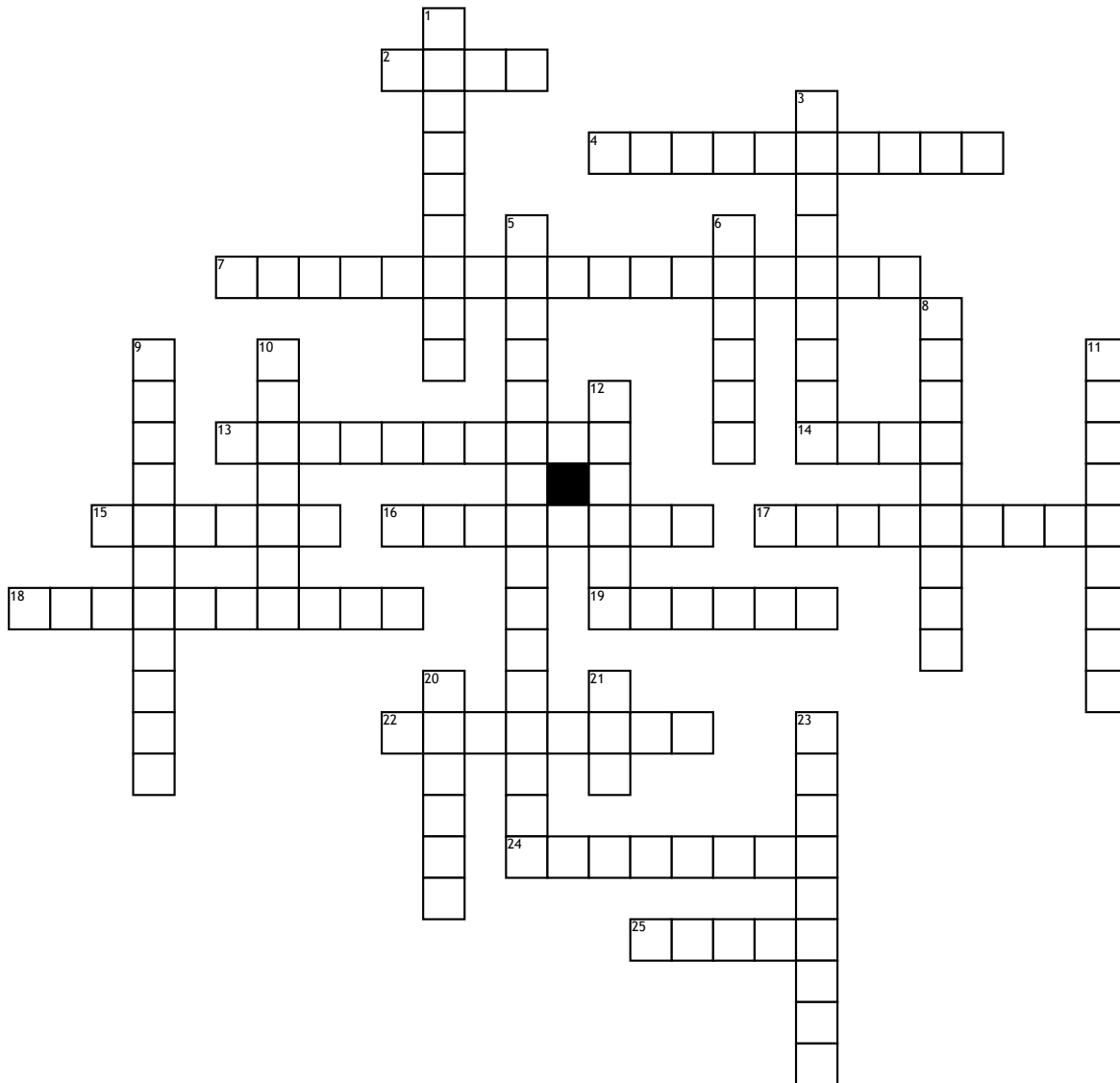


Precalculus Mania



Across

2. The total force needed to move an object a certain distance.
 4. A type of angle in which it has different angle measures with the same initial and terminal sides, can be positive or negative.
 7. A notation that uses the Greek letter sigma to represent the sum of the terms of a sequence.
 13. Used to calculate the sine and cosine values of certain angles.
 14. A function that is always $f(x) = f(-x)$
 15. The point of intersection of lines.
 16. Modeled by a vector in which its direction is the direction of the motion as well its magnitude is the speed.
 17. The length of a vector.
 18. A set of equations that together express a set of quantities as explicit functions of a number of independent variables.

19. The largest set of real numbers that $f(x)$ can be defined for.

22. A "u" shaped curve that represents the graph of a quadratic function.

24. A function whose domain is the set of natural numbers, separated by comas.

25. The average rate of change between two points.

Down

1. The power to which a number (called the base) is raised to produce a given number.

3. The value presented the graphs of trigonometric function such as sine or cosine is stretched; always positive.

5. A two-dimensional coordinate system in which points in two dimensions are given by an angle and a distance from the origin.

6. A particular triangular arrangement of the coefficients of binomial expansions.

8. The initial investment in a compound interest problem.

9. The conduct of the graph of $f(x)$ as x approaches positive infinity or negative infinity.

10. opposite/adjacent

11. A sequence that multiplies by the same number to get to the next number in the sequence.

12. The distance between any two repeating values of a function.

20. The measure of a central angle that intercepts an arc equal in length to the radius of the circle.

21. The line passing through the focus and vertex of a parabola.

23. A type of angle which is a positive acute angle that the terminal side makes with the closest x - axis.