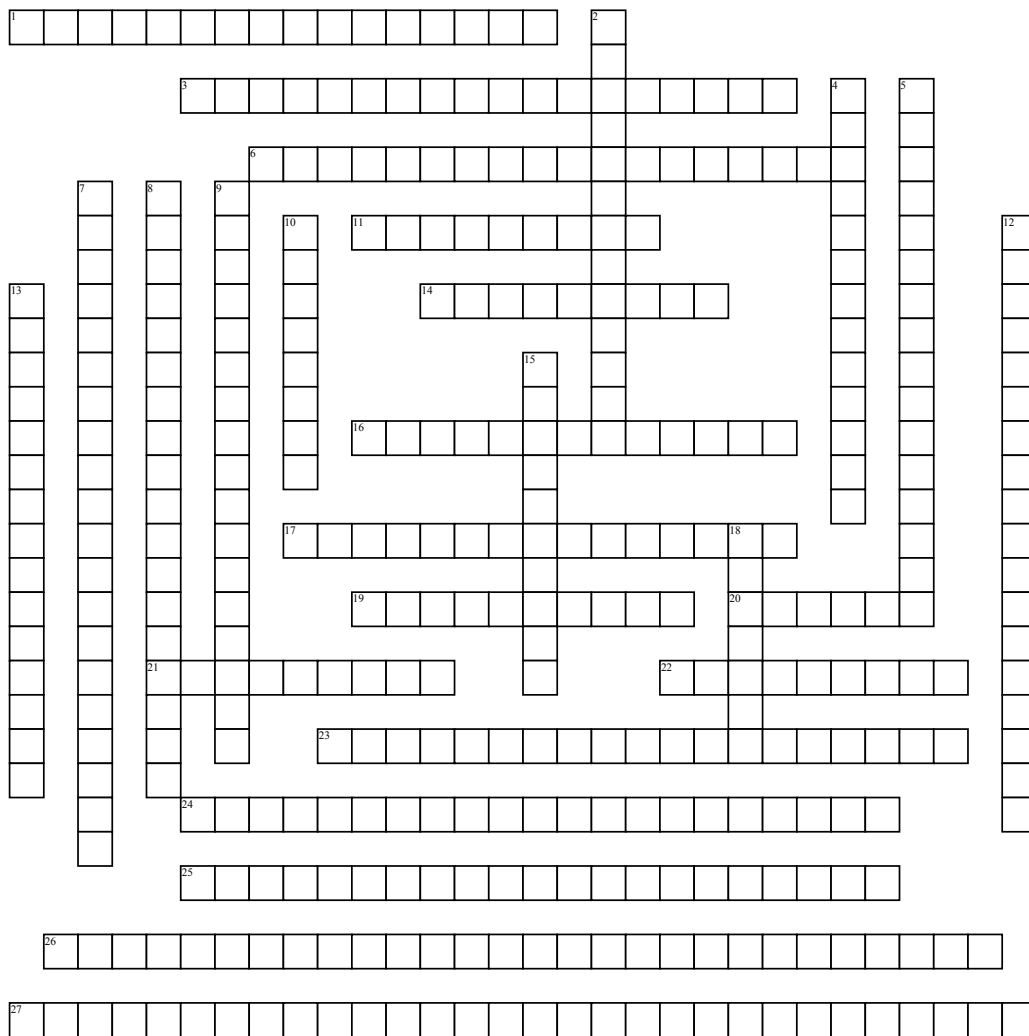


Name: _____

Math Project



Across

1. way of writing subsets of the real number
3. The quotient of two polynomials.
6. relation in which the domain and range of the original function have been Exchanged.
11. Finding what to multiply together to get an expression
14. line that a curve which approaches but never touches.
16. Any rational number that is the square of another rational number
17. These angles are used to express angles bigger than as acute angles (less than 90°). A Reference angle is an acute angle formed by the terminal side and the x-axis
19. expression consisting of variables and coefficients, that involves only the operations of addition, subtraction, multiplication, and non-negative integer exponents of variables
20. To study a function's end behavior near asymptotes
21. A polynomial that consists of 3 terms.
22. set of all points in a plane where the difference of the distances from two fixed points, called foci

23. Used when trying to find the root(s) of a quadratic equation when it can't be factored. The process of Completing the Square exists by trying to "force" a perfect square to exist.
24. To show 2 matrices A and B are multiplicative inverses of each other, their products AB and BA will equal the multiplicative identity matrix.
25. two-dimensional coordinate system in which each point on a plane is determined by a distance from a reference point and an angle from a reference direction.
26. The diagonal from the upper left to the lower right and 0's everywhere else
27. simply add or subtract the coefficients of like terms.
Down
2. symmetric with the y-axis
4. curves that result from the intersection of a right circular cone and plane.
5. The lowest point in a particular section of a graph.
Note: The first derivative test and the second derivative test are common methods used to find minimum values of a function.

7. Refers to the multiplication of a vector by a constant, producing a vector in the same or opposite direction but of different length.
8. inequality which involves a linear function
9. A function that is defined by two or more equations over a specified period of time
10. An array of numbers arranged in rows and columns and placed in brackets is called a matrix
12. Fraction in which the numerator and/or the denominator are polynomials.
13. fraction in which the numerator, denominator, or both, also contain fractions.
15. line segment that passes through its focus, is parallel to the directrix, and has endpoints on the parabola. The length of the Focal chord is $4p$
18. set of all points in a plane, the sum of whose equal distances from two fixed points, called the foci

Word Bank

Interval notation
Relative minimums
Linear Inequalities
Reference Angles
Trinomial
Complex fraction
Rational Expression

Perfect square
Multiplicative Inverse
Conic Sections
Rational expression
Inverse of a function
Piecewise Function
Hyperbola

Even Functions
Matrices
Polar coordinate system
Polynomial
Limits
Focal Chord
Factoring

Asymptote
Multiplicative Identity Matrix
Ellipse
Adding or Subtracting polynomials
Scalar Multiplication
Completing the Square