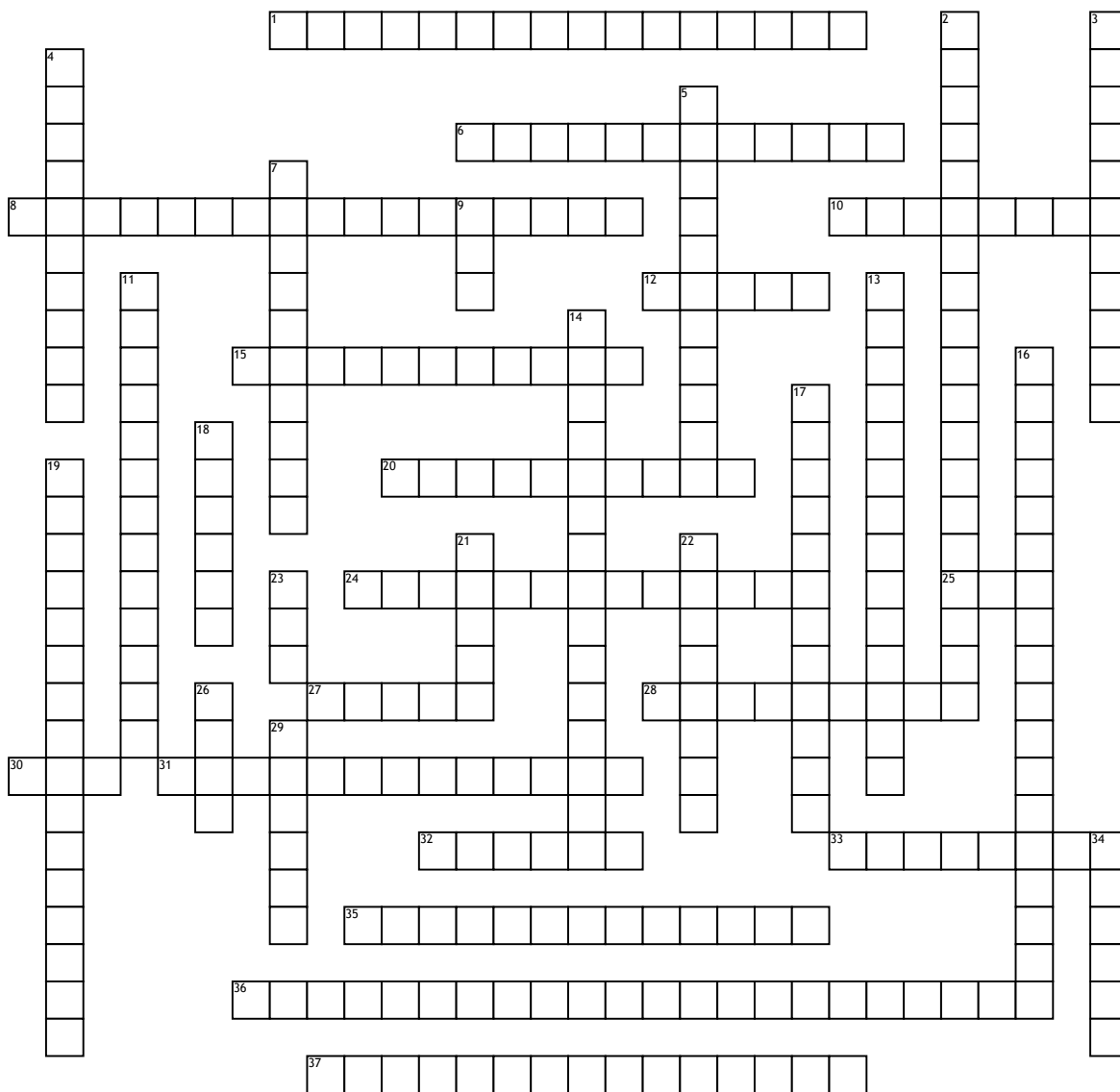


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# Pre-Calculus Semester 1



## Across

1. If a polynomial  $F(x)$  is divided by  $(x-a)$ , the remainder is  $F(a)$
6.  $f(-x)=f(x)$
8.  $f(x)=ax^2+bx+C$
10. A statement that two mathematical expressions are equal.
12. Vertex of a quadratic function
15. A pair of numbers in which the order is specified
20. Current Math Teacher
24. Two lines whose slopes are equivalent
25. Quadrant  $(-, -)$
27. rise over run
28. Values of a variable which satisfy the equation.
30. Least Common Denominator
31.  $|a|=a$

## 32. Discriminant of the quadratic Formula

33. What it's called when a graph is identical on either side of a line
  35. A polynomial function  $F(x)$  has  $(x-a)$  as a factor if and only if  $F(a)=0$
  36.  $(f \circ g)(x)=f(g(x))$
  37. Applying shifts, compression's, reflections, and stretches to a function
- ## Down
2. Equations that have the same solution set.
  3.  $f(-x)= -x$
  4. A statement that one algebraic expression is less than, or less than or equal to, another algebraic expression
  5. The leading coefficient and the degree of the polynomial determine what?
  7. The point where the graph crosses the x-axis

## 9. Conjugate of $a+bi$

11. Two lines whose slopes create a 90 degree angle
13.  $y-y_1=m(x-x_1)$
14. The distance between two points
16. the functions can be combined to form sum, difference, product, and quotient functions.
17. Solution set is empty
18. Zeros of a polynomial
19.  $(-b \pm \sqrt{b^2-4ac})/2a$
21. The set of all y-values along a graph
22. The coordinates that bisect a line segment in half.
23. Greatest Common Factor
26. Complex Number Standard Form
29. The set of all values along the x-axis of a function
34. Slope-intercept form