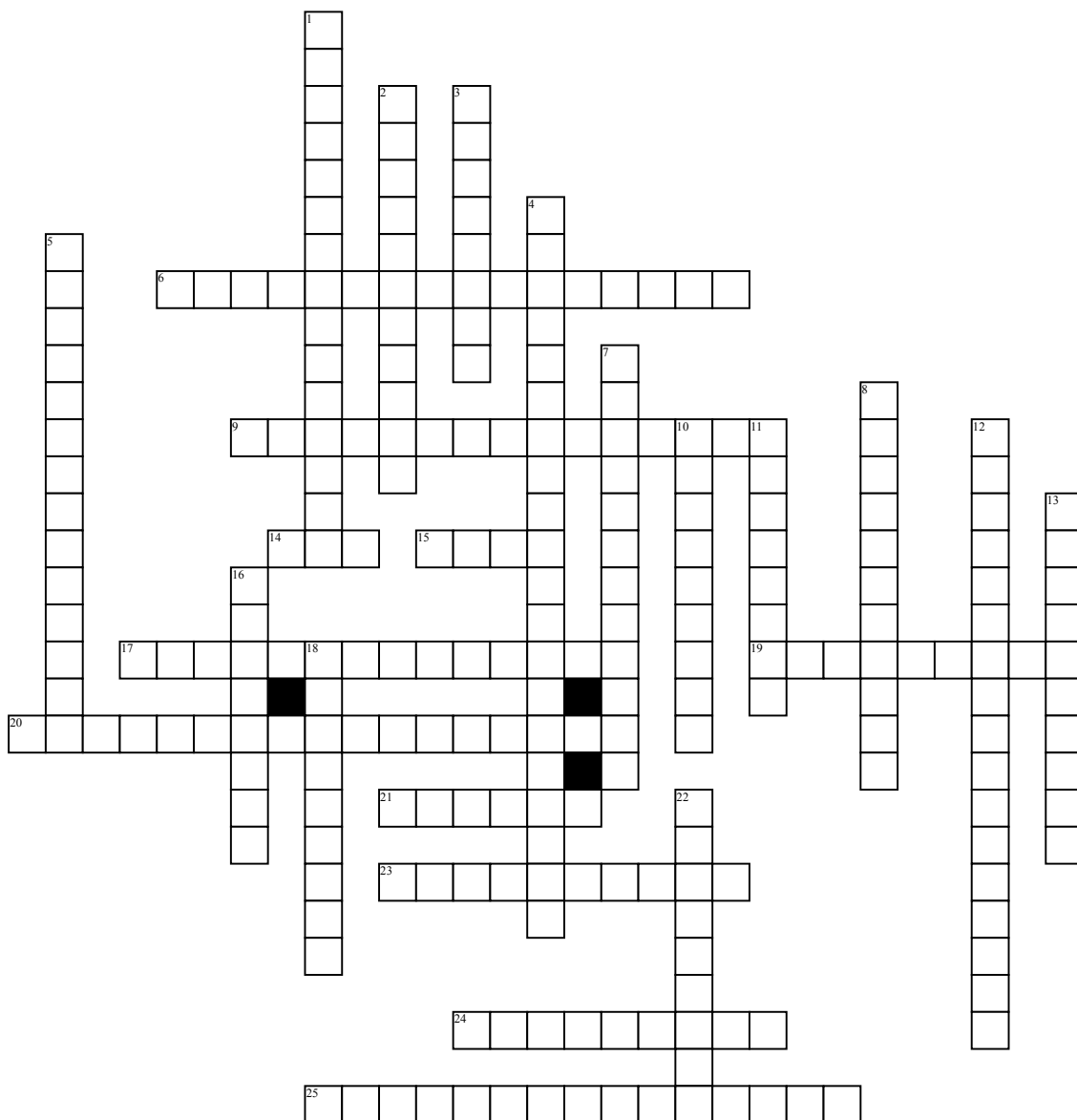


Name: \_\_\_\_\_

Date: \_\_\_\_\_

# Algebra 2 Project



## Across

6. A logarithm with base  $e$ , written as  $\ln$ .  
 9. A logarithm whose base is 10.  
 14. An unbroken part of a circle consisting of two points on the circle.  
 15. The number that gets multiplied when using an exponent.  
 17. A change in the position, size, or shape, of a figure or graph.  
 19. A line that a graph approaches as the value of a variable becomes extremely large or small.  
 20. A shorthand method of dividing by a linear binomial in the form of  $(x - a)$ .  
 21. The set of all possible input values of a relation or function.  
 23. A monomial or a sum or difference of monomials.

24. The exponent that a specified base must be raised to in order to get a certain value.

25. A fraction that contains one or more fractions in the numerator, the denominator, or both.

## Down

1. The square root of a negative number, written in the form  $bi$ , where  $b$  is a real number and  $i$  is the imaginary unit.  
 2. A transformation that shifts or slides every point of a figure or graph the same distance in the same direction.  
 3. The shape of the graph of a quadratic function.  
 4. The coefficient of the first term of a polynomial in standard form.

5. A line that divides a plane, figure, or a graph into two congruent reflected halves.

7. For any nonzero real number  $x$ .  
 8. The set of natural numbers and zero.  
 10. A polynomial with three terms.  
 11. A polynomial with one term.  
 12. The highest or lowest point on the parabola.  
 13. A transformation that reflects, or "flips", a graph or figure across a line.  
 16. A relation in which every input is paired with exactly one output.  
 18. The process of writing a number or algebraic expression as a product.  
 22. A number that describes a sample.