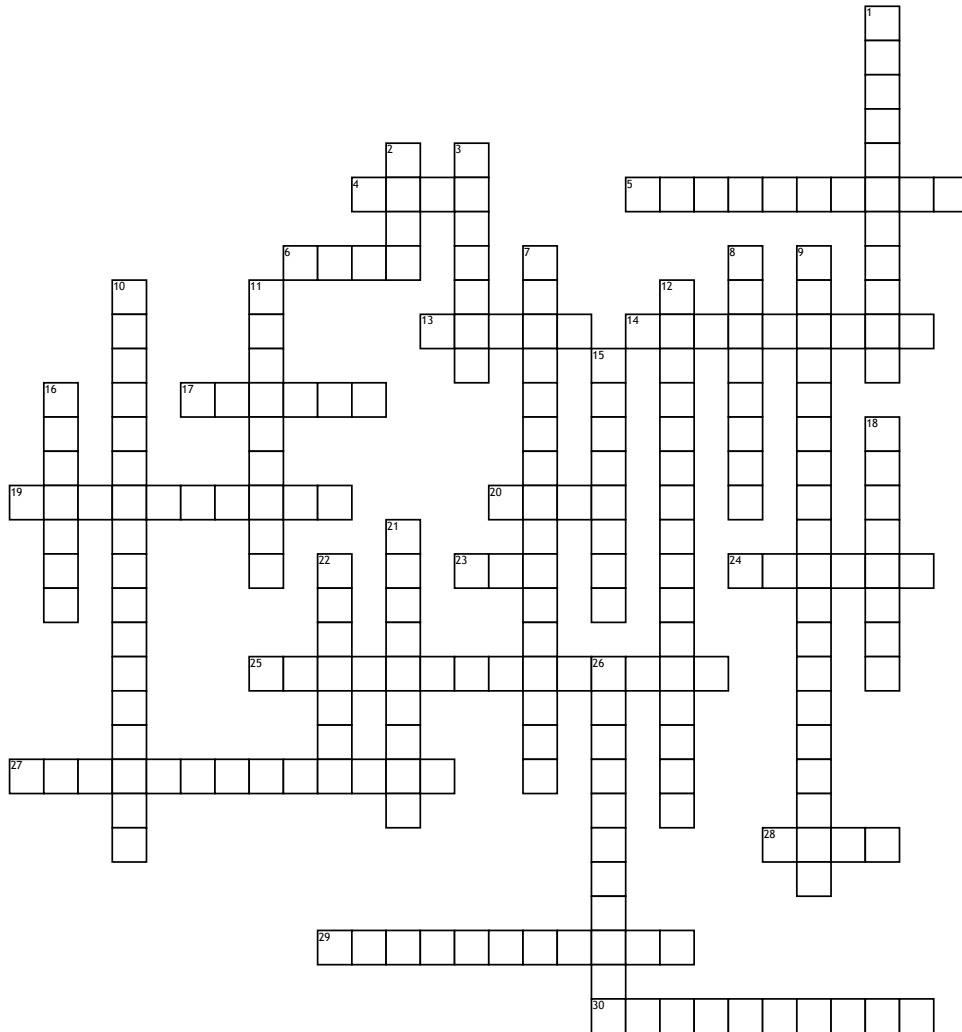


Algebra 2 Semester 2



Across

- 4. a solution is also known as a _____ of a function
- 5. statistical study of the relationship between variables
- 6. a solution is also known as a _____ of an equation
- 13. exponential function with a base smaller than 1 and greater than 0
- 14. another way to solve a quadratic function
- 17. a base 10 logarithm
- 19. quadratic equation in written as $y = a(x - h)^2 + k$
- 20. add to y, go _____
- 23. when factoring, this is the first step
- 24. exponential function with a base greater than 1

- 25. found with the formula $x = -b/2a$
 - 27. degree 3 polynomial of 2 terms
 - 28. there are _____ values for powers of i that repeat in a cycle
 - 29. transformation that moves all points the same distance and in the same direction
 - 30. transformation when a is negative
- Down**
- 1. i squared
 - 2. add to x, go _____
 - 3. a _____ number has both a real part and an imaginary part
 - 7. one way to solve a quadratic function
 - 8. a _____ function is a ratio of 2 polynomial functions
 - 9. if $a < 1$ in $y = ax^2$

- 10. a method of dividing polynomial by a binomial in the form $x - a$ by using only the coefficients
- 11. a line that a graphed function approaches but does not touch
- 12. has a base of e
- 15. yet another way to solve a quadratic equation
- 16. to graph a _____, reflect each point across the line $y = x$
- 18. sign of leading coefficient when a parabola opens downward
- 21. a polynomial with 3 terms
- 22. when a parabola opens upward, the y-coordinate of the vertex is called a _____
- 26. a description of the function values as x approaches negative infinity and positive infinity

Word Bank

- | | | | | |
|-------------------|----------------|--------------------|----------------------|------------------|
| root | high | common | reflection | decay |
| negative one | cubic binomial | vertex form | asymptote | rational |
| growth | trinomial | zero | translation | regression |
| quadratic formula | left | graphing | end behavior | axis of symmetry |
| four | factoring | GCF | negative | minimum |
| natural logarithm | inverse | synthetic division | vertical compression | complex |