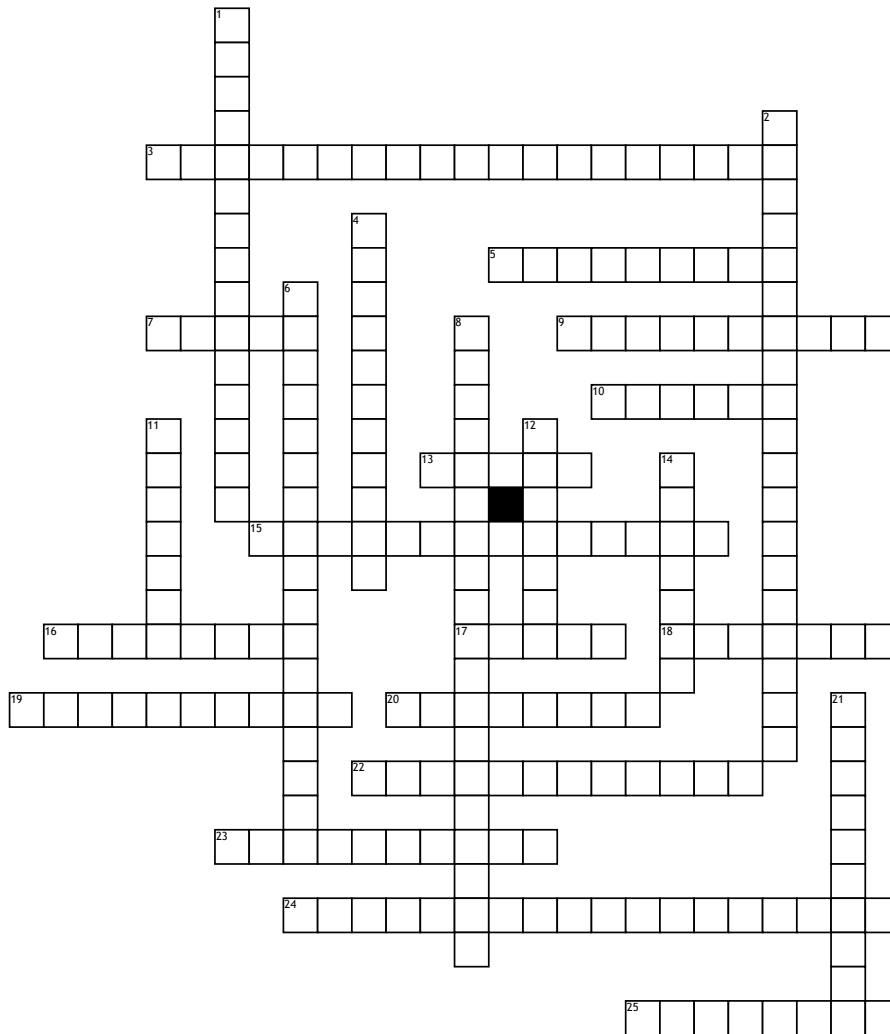


# Advanced Algebra Crossword



## Across

3. If the degree of the numerator and the denominator are the same, or the degree of the denominator is greater, then there is a \_\_\_\_\_
5. A line that the graph of the function approaches
7. All y-values
9. Numbers, symbols and operators (such as + and  $\times$ ) grouped together that show the value of something.
10. All x-values
13. Where the graph crosses the x-axis
15. If the degree of the numerator is greater, then there is a \_\_\_\_\_

16. \_\_\_\_\_ is when two or more parts are identical after a flip, slide or turn.

17. A diagram of values, usually shown as lines or bars.
18. All of the highest points on a graph
19. Where the graph crosses the y-axis
20. An \_\_\_\_\_ says that two things are equal.
22. Tells how many and what type of solutions the quadratic has.
23. An \_\_\_\_\_ says that two values are not equal.
24. A quotient of two polynomials
25. A symbol for a number we don't know yet. It is usually a letter like x or y.

## Down

1. Is essentially the reverse: put in your y value and you'll get your initial x value back.
2. When the y-value decreases and the x-value increases
4. A number used to multiply a variable.
6. Finding any zeros of the denominator will give you the \_\_\_\_\_
8. When the y-value increases as the x-value increases
11. All of the lowest points on a graph
12. An equation that shows the relationship between different variables.
14. Turns in the graph
21. The \_\_\_\_\_ of a number is: 1 divided by the number

## Word Bank

Variable	Equation	Coefficient	Slant asymptote	Zeros
Symmetry	Horizontal asymptote	Discriminant	Maximum	Vertical asymptote
Reciprocal	Formula	Inverse function	Domain	Extrema
Rational expression	Graph	Increasing functions	Decreasing functions	Y-intercept
Inequality	Asymptote	Range	Minimum	Expression