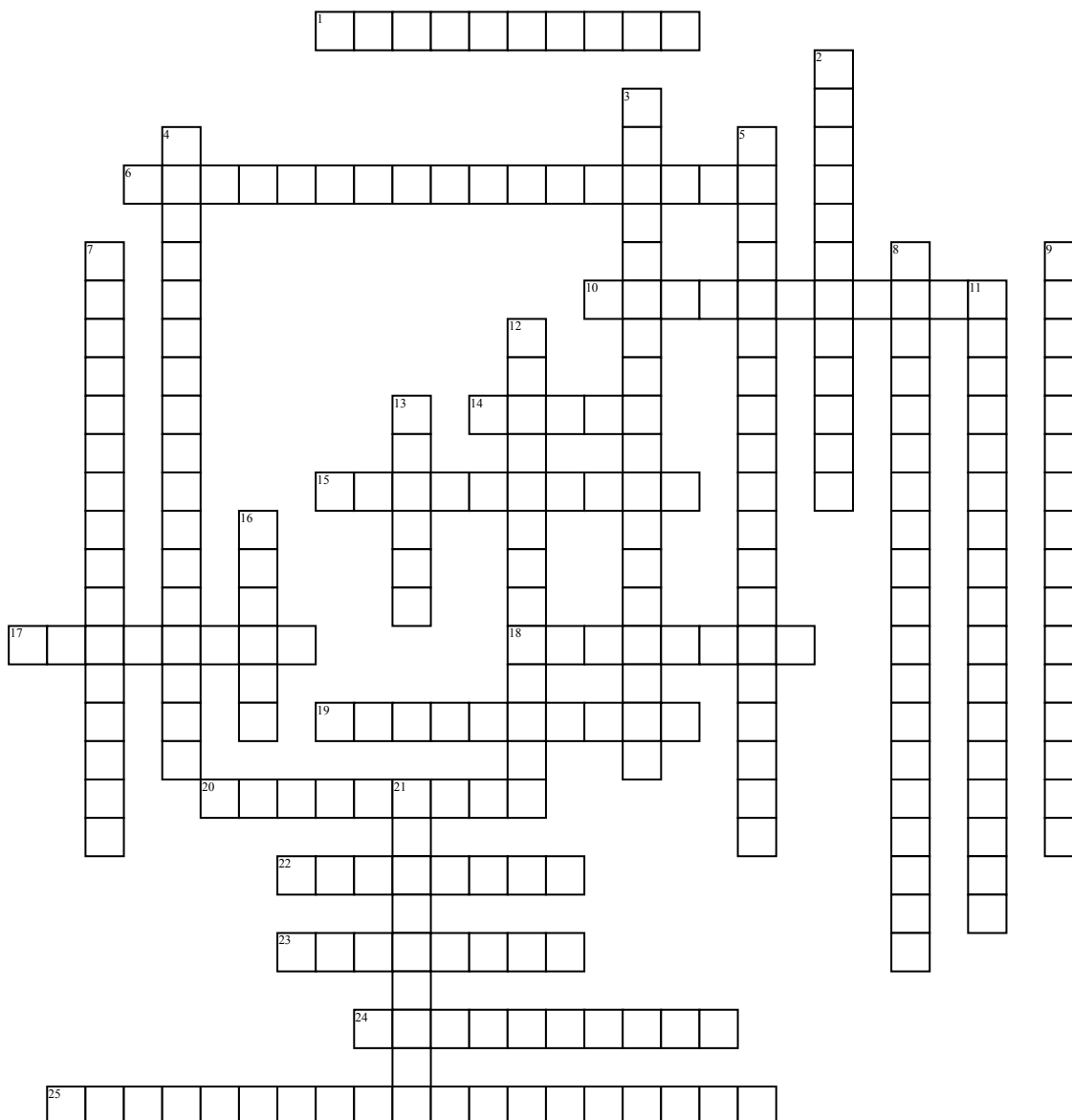


Advance Algebra



Across

1. A sum of monomials.
6. If $f(x)$ approaches $+$ or $-$ infinity as x approaches a from the left or right, then $\lim_{x \rightarrow a} f(x) = a$.
10. the value a function approaches as x approaches positive or negative infinity
14. all of the possible outputs of a function
15. the value of a function when x is 0; where a graph crosses the y -axis
17. An expression that is either a numeral, a variable, or the product of a numeral and one or more variables.
18. A value or number that never changes in an equation

19. an application of the distributive property used to multiply two binomials. The product of the two binomials is found by multiplying the First, Outer, Inner, and Last terms.

20. A term with a degree of three
22. Exponents containing fractions.
23. A polynomial with two terms.
24. the domain value(s) that produces a y -value of 0; where the graph crosses the x -axis
25. If $f(x)$ approaches a as x approaches $+\infty$ or as x approaches $-\infty$, then $\lim_{x \rightarrow \pm\infty} f(x) = a$.

Down

2. the number that is used as a factor.
3. an expression that can be written as a ratio of two polynomials

4. The sum of the degrees of its variables.
5. The greatest of the degrees of its terms after it has been simplified.
7. A number.
8. a difference of two squares can be represented in an expression of the form $a^2 - b^2$ and factors into the form $(a + b)(a - b)$.
9. The product of a constant (other than 0) and the square root of -1 .
11. An expression containing a square (or other) root
12. A term with a degree of two.
13. Term A term with a degree of one.
16. all of the possible inputs of a function
21. A polynomial with three terms.