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Algebra 2

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| **Across**  **2.** The number of variable that represents the number of times the base of a power is a used as a factor.  **5.** Shape of a graph of a quadratic function.  **9.** A monomial or a sum of monomials  **13.** A function where f(g(x)) = g(f(x)).  **14.** The y-coordinate of a point where a graph intersects the y-axis.  **15.** A term that has a number and no variable.  **16.** A symbol use to represent a quantity that can change.  **18.** The number of expression that is used as a factor in a repeated multiplication.  **20.** A relation for which each input has exactly one output.  **22.** A shorthand method of dividing a polynomial by a divisor of the form x-k .  **23.** A logarithm with base 10.  **24.** The result of multiplying a number by itself. | **Down**  **1.** The behavior of the graph of a function as x approaches positive or negative infinity.  **3.** To rewrite an expression as simply as possible.  **4.** The most basic function in a family of functions.  **6.** An equation in which a variable expression occurs as an exponent.  **7.** An equation that involves a log of a variable expression.  **8.** The set of input values of a relation.  **10.** The number that multiples the variable.  **11.** Another term for a x-intercept.  **12.** The x-coordinate of a point where a graph intersects the x-axis.  **17.** A line that a graph approaches but touch.  **19.** Terms that have the same variables and powers.  **21.** A polynomial with two terms. |