|  |  |  |
| --- | --- | --- |
| Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Date: \_\_\_\_\_\_\_\_\_ | Period: \_\_\_\_\_\_\_ |

Quadratic Vocabulary

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 1  C |  |  |  |  | 2  F |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 3  Z | E | R | O | S |  |  |  | A |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M |  |  |  |  | C |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | P |  |  |  |  | T |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | L |  |  |  |  | O |  |  |  |  |  |  |  |  |
|  |  |  |  | 4  C | O | M | P | L | E | T | I | N | G | T | H | E | S | Q | U | A | R | E |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | X |  |  |  |  | I |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 5  Q | U | A | D | R | A | T | I | C | F | U | N | C | T | I | O | N |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | U |  |  |  |  | G |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6  C |  | M |  |  |  |  |  |  |  |  | 7  C |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | O |  | B |  |  |  |  | 8  S |  |  |  | O |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  | 9  X | I | N | N | E | R | C | E | P | T | T |  |  |  | N |  |  |  |  |
|  |  |  |  |  |  |  | 10  P |  |  |  |  |  |  | J |  | R |  |  |  |  | A |  | 11  M |  | S |  |  |  |  |
|  |  |  |  |  |  |  | A |  | 12  M | I | N | I | M | U | M |  |  |  |  |  | N |  | A |  | T |  |  |  |  |
|  |  |  |  |  |  |  | R |  |  |  |  |  |  | G |  |  |  | 13  V |  |  | D |  | X |  | A |  |  |  |  |
|  |  |  |  |  |  |  | A |  | 14  Q | U | A | D | R | A | T | I | C | E | Q | U | A | T | I | O | N |  |  |  |  |
|  |  |  |  |  |  |  | B |  |  |  |  |  |  | T |  |  |  | R |  |  | R |  | M |  | T |  |  |  |  |
|  |  |  |  |  |  | 15  C | O | E | F | F | I | C | I | E | N | 16  T |  | T |  |  | D |  | U |  |  |  |  |  |  |
|  |  |  |  |  |  |  | L |  |  |  |  |  |  | S |  | R |  | E |  |  | F |  | M |  |  |  |  |  |  |
|  |  |  |  | 17  S | Q | U | A | R | E | R | O | O | T |  |  | I |  | X |  |  | O |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | N |  |  |  |  | R |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  | 18  A | X | I | S | O | F | S | Y | M | M | E | T | R | Y |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | M |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | 19  I | M | A | G | I | N | A | R | Y | U | N | I | T |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | 20  R | A | D | I | C | A | L |  |  |  |  |  |  |  |  |  |  |  |  |  |

|  |  |
| --- | --- |
| **Across**  **3.** 20. members x of the domain of f such that f(x) vanishes at x  **4.** 16.a technique used to solve quadratic equations, graph quadratic functions, and evaluate integrals  **5.** one of the form f(x) = ax2 + bx + c, where a, b, and c are numbers with a not equal to zero.  **9.** 9.the point at which the graph of an equation crosses the x-axis.  **12.** 19. the place where the graph has a vertex at its lowest point  **14.** 4. an equation containing a single variable of degree 2  **15.** 5. is a number used to multiply a variabl  **17.** 6. number is a value that, when multiplied by itself, gives the number  **18.** 10. A line through a shape so that each side is a mirror image.  **19.** 13. one that when squared gives a negative result  **20.** 12. An expression that has a square root, cube root, etc. | **Down**  **1.** 7.a number that can be expressed in the form a + bi, where a and b are real numbers, and i is the imaginary unit  **2.** simplify expressions, simplify fractions, and solve equations  **6.** 14. where you change the sign in the middle of two terms  **7.** 15. a number on its own, or sometimes a letter such as a, b or c to stand for a fixed number  **8.** 17. another way of writing the equation of a line.  **10.** 2. a plane curve generated by a point moving so that its distance from a fixed point is equal to its distance from a fixed line  **11.** 18. the value of a function at a certain point in its domain, which is greater than or equal to the values at all other points in the immediate vicinity of the point  **13.** 8.the highest or lowest point, also known as the maximum or minimum of a parabola.  **16.** 11. A mathematical expression that is the sum of three monomials |