Quadratics/Polynomial Crossword Puzzle

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |  | 1  C | O | N | J | U | G | A | T | E | S |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | 2  T |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  | 3  S | Q | U | A | R | E | R | O | O | T |  | 4  M |  | A |  | 5  C | O | E | F | F | I | C | I | E | N | T |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  | I |  | B |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 6  P |  | N |  | L |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  | 7  Q | U | A | D | R | A | T | I | C | E | Q | U | A | T | I | O | N |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | R |  | M |  | S |  |  |  |  |  |  |  | 8  C |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  | A |  | U |  |  |  |  |  | 9  F | A | C | T | O | R | I | N | G |
|  |  | 10  D |  |  |  |  |  |  |  |  |  |  | B |  | M |  |  |  |  |  |  |  |  |  | M |  |  |  |  |
| 11  O | N | E | R | E | A | L | S | O | L | U | T | I | O | N |  |  | 12  X | I | N | T | E | R | 13  C | E | P | T |  |  | 14  N |
|  |  | S |  |  |  |  |  |  |  |  |  |  | L |  | 15  O |  |  |  |  |  |  |  | O |  | L |  |  |  | O |
| 16  R |  | C |  |  |  |  |  | 17  S | T | A | N | D | A | R | D | F | O | R | M |  | 18  S |  | N |  | E |  |  |  | R |
| E |  | A |  |  | 19  R |  |  |  |  |  |  |  |  |  | D |  |  |  |  |  | Y |  | S |  | T |  |  |  | E |
| L |  | R |  |  | A |  |  |  | 20  V | E | R | T | E | X | F | O | R | M |  |  | N |  | T |  | I |  | 21  Q |  | A |
| A |  | T |  |  | D |  |  |  |  |  |  |  |  |  | U |  |  |  |  |  | T |  | A |  | N |  | U |  | L |
| T |  | E |  |  | I |  | 22  D | I | S | 23  C | R | I | M | I | N | A | N | T |  |  | H |  | N |  | G |  | A |  | S |
| I |  | S |  |  | C |  |  |  |  | O |  |  |  |  | C |  |  |  | 24  V |  | E |  | T |  | T |  | D |  | O |
| V |  | R |  | 25  M | A | X | I | M | U | M |  | 26  Y | I | N | T | E | R | C | E | P | T |  |  |  | H |  | R |  | L |
| E |  | U |  |  | L |  |  |  |  | P |  |  |  |  | I |  |  |  | R |  | I |  |  |  | E |  | A |  | U |
| M |  | L |  |  |  |  | 27  F | O | I | L |  | 28  Z | E | R | O | S |  |  | T |  | C |  |  |  | S |  | T |  | T |
| A |  | E |  |  |  |  |  |  |  | E |  |  |  |  | N |  |  |  | E |  | D |  |  |  | Q |  | I |  | I |
| X |  | O |  |  |  |  |  |  |  | X |  |  |  |  |  |  |  |  | X |  | I |  |  |  | U |  | C |  | O |
| I |  | F |  |  |  |  | 29  E | V | E | N | F | U | N | C | T | I | O | N |  |  | V |  |  |  | A |  | F |  | N |
| M |  | S |  |  |  |  |  |  |  | U |  |  |  |  |  |  |  |  | 30  R |  | I |  |  |  | R |  | O |  |  |
| U |  | I |  |  | 31  T | R | I | N | O | M | I | A | L |  | 32  A | X | I | S | O | F | S | Y | M | M | E | T | R | Y |  |
| M |  | G |  |  |  |  |  |  |  | B |  |  |  |  |  |  |  |  | O |  | I |  |  |  |  |  | M |  |  |
|  |  | N |  |  | 33  D | E | G | R | E | E | O | F | T | H | E | F | U | C | T | I | O | N |  |  |  |  | U |  |  |
|  |  | S |  |  |  |  |  |  |  | R |  |  |  |  |  |  |  |  | S |  | N |  |  |  |  |  | L |  |  |
|  |  |  | 34  T | W | O | R | E | A | L | S | O | L | U | T | I | O | N | S |  |  |  |  |  |  |  |  | A |  |  |

|  |  |
| --- | --- |
| **Across**  **1.** rational numbers that look alike but have different signs  **3.** a number that multiplies times itself  **5.** the numerical factor of a monomial  **7.** an equation containing at least one squared term  **9.** asking 4 questions to break down an equation to its smallest form  **11.** crosses the x axis one time  **12.** the line crosses the x axis here  **17.** Ax+By=C  **20.** y=a(x-h)²+k  **22.** b²-4ac  **25.** highest y-coordinate on a graph  **26.** the line crosses the y axis here  **27.** a way to distribute two binomials  **28.** another name for the solutions of a quadratic equation  **29.** a line that goes in an even amount of directions  **31.** an equation with 3 terms  **32.** a line which splits down the middle of a shape and has equal parts on both sides  **33.** the sum of the exponents of the variable in a monomial  **34.** crosses the x axis twice | **Down**  **2.** data arranged in rows and columns  **4.** the lowest y-coordinate on a graph  **6.** a symmetrical curve beginning at a fixed point  **8.** used to make a quadratic equation into a perfect trinomial  **10.** a rule that helps a person find the roots of a polynomial by looking at the signs  **13.** a monomial that does not contain variables  **14.** never crosses the x axis  **15.** a line that goes in an odd number of directions  **16.** the greatest y-coordinate of nearby points on a graph  **18.** a way to divide a polynomial by a binomial  **19.** a ¨division symbol¨ with a tail  **21.** x equals negative b plus or minus the square root of b² minus 4ac all over 2a  **23.** numbers in the form (a=bi) where a and b are real; i is imaginary  **24.** the axis of symmetry meets the parabola here  **30.** solutions of a quadratic equation |