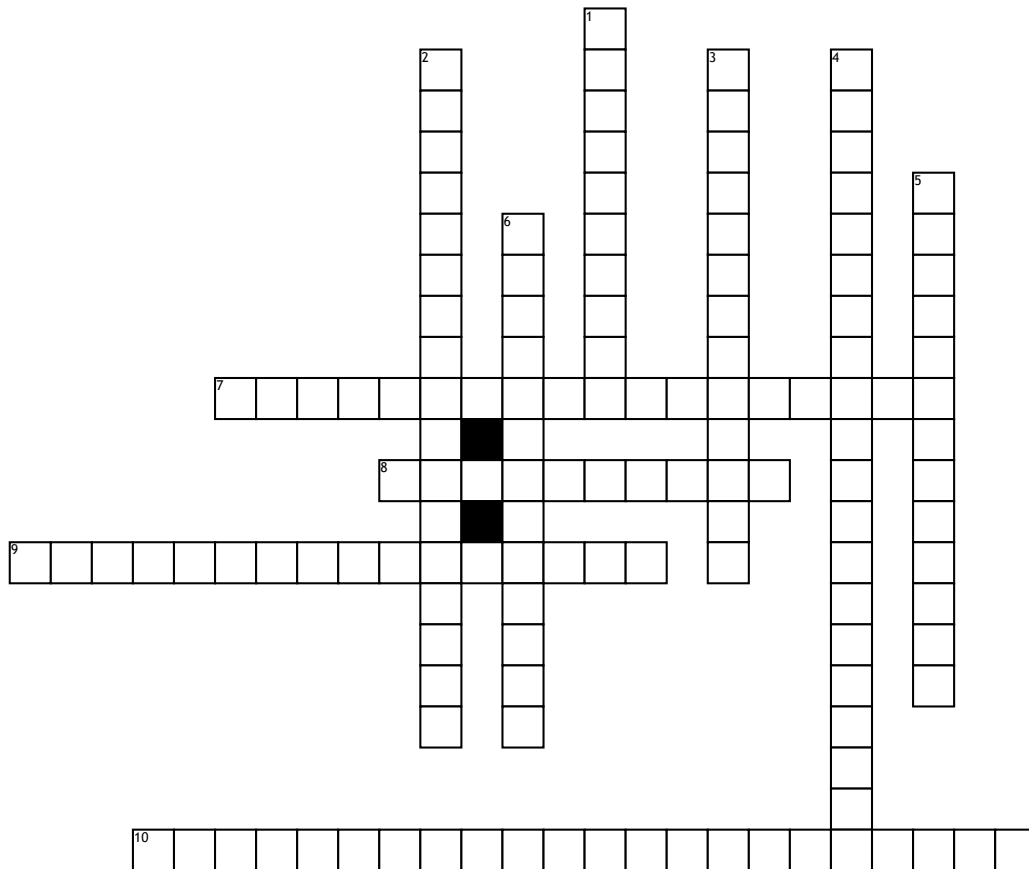


Radicals and Imaginary Numbers



Across

- 7. a number that does not satisfy the original equation
- 8. for any real numbers a and b, if a squared equals b, then a is a square root of b
- 9. an equation with radicals that have variables in the radicands
- 10. two radical expressions in which both the radicands and indices are alike

Down

- 1. binomials where a, b, c, and d are rational numbers
- 2. an inequality that has a variable in the radicand
- 3. the nonnegative root
- 4. the square roots of negative real numbers
- 5. i, or the principal square root of -1
- 6. to eliminate radicals from a denominator or fractions from a radicand

Word Bank

- | | | |
|------------------------|--------------------------|---------------------|
| square root | imaginary unit | extraneous solution |
| pure imaginary numbers | like radical expressions | radical inequality |
| principal root | rationalizing | conjugates |
| radical equations | | |