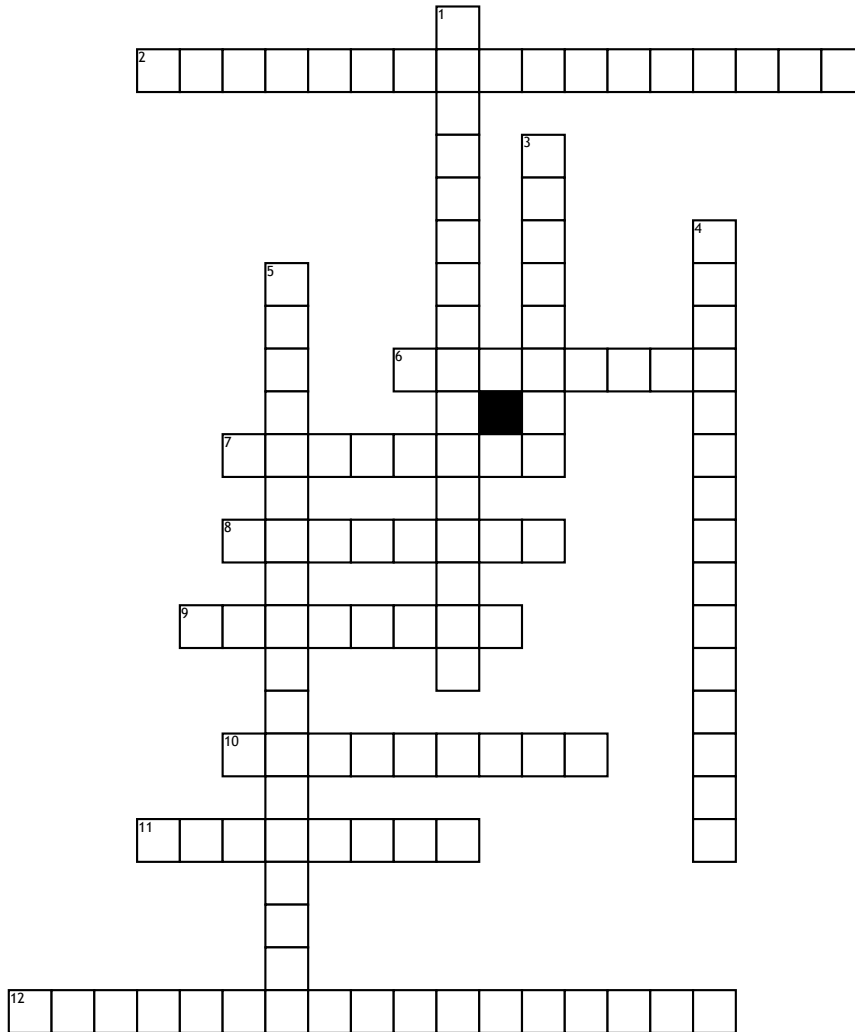


The Study of Functions



Across

- 2. a variable (often denoted by y) whose value depends on that of another. DEPENDENT
- 6. a variable (often denoted by x) whose variation does not depend on that of another. INDEPENDENT
- 7. A set of input and output values, usually represented in ordered pairs, refers to a Relation.
- 8. is a line that a curve approaches, as it heads towards infinity.

- 9. a mathematical function whose value algebraically increases as the independent variable algebraically increases over a given range. INCREASING
- 10. An equation where the highest exponent of the variable (usually " x ") is a square (2).
- 11. individually separate and distinct.
- 12. growth whose rate becomes ever more rapid in proportion to the growing total number or size.

Down

- 1. works when there is a relationship between two variables in which the product is constant. INVERSE
- 3. an activity or purpose natural to or intended for a person or thing.
- 4. is a function that "reverses" another function. INVERSE
- 5. a function whose value decreases as the independent variable increases over a given range. DECREASING

Word Bank

- | | | |
|--------------------|-----------|---------------------|
| RELATION | QUADRATIC | VARIABLE |
| ASYMPTOTE | DISCRETE | INVERSE_FUNCTION |
| EXPONENTIAL_GROWTH | FUNCTION | DECREASING_FUNCTION |
| DEPENDENT_VARIABLE | FUNCTION | INVERSE_VARIATION |