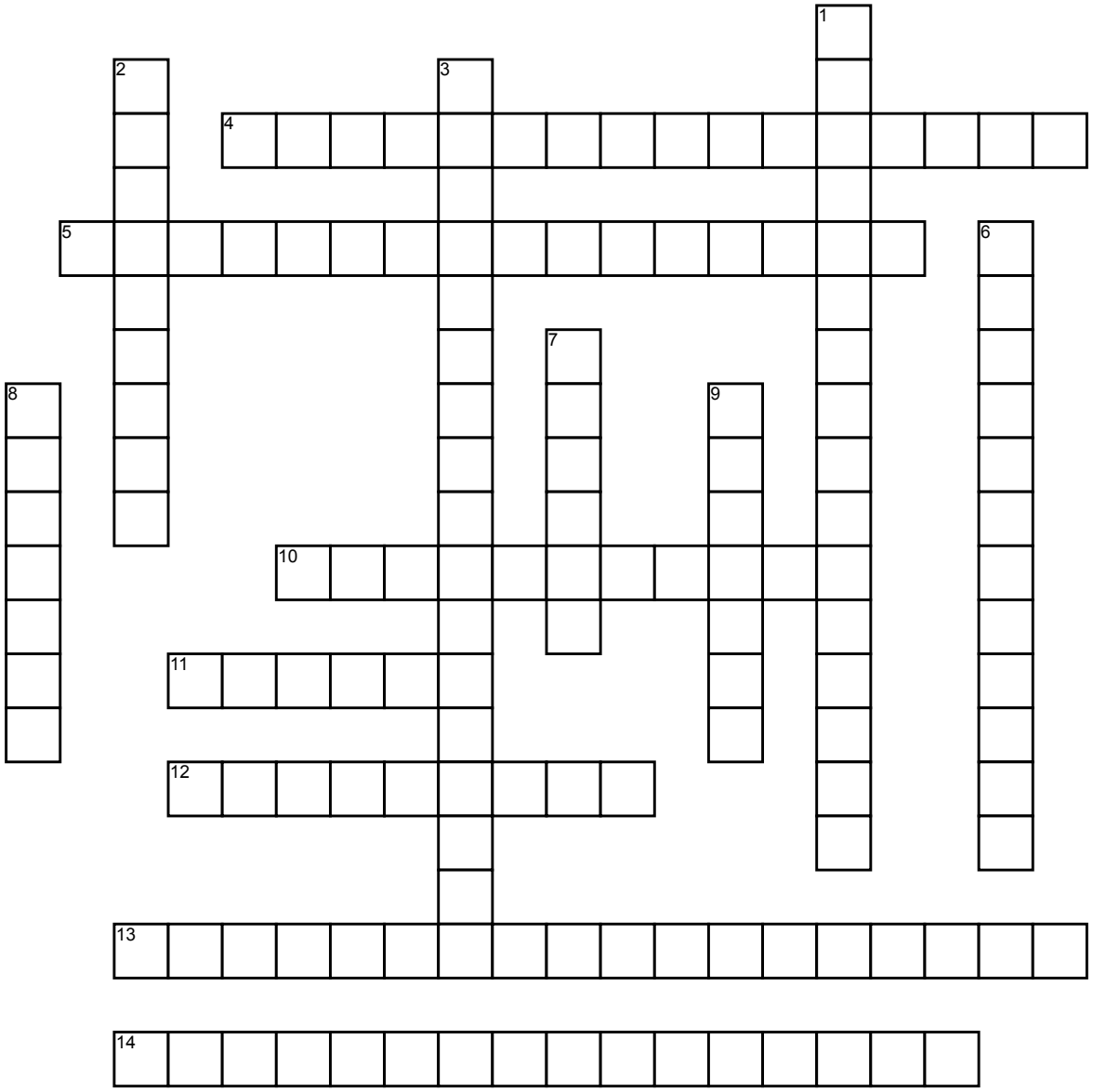
Name: _____ Date: _____ Period: _____

Pre-Calculus Terms



Across

4. The test by which a relation is either shown to be a function or not. The graph of a function does not intersect with a vertical line more than once.

5. A function is periodic if and only if f (x) = f (x + c) , for all values x , where c is a constant. A periodic function repeats itself at regular intervals.

10. A function f is odd if f (x) = - f (- x)

11. The set of all inputs for which a function or relation is defined.

12. A line that a graph approaches but never crosses

13. The test by which it is shown whether a function is a one-to-one function or not, and therefore whether its inverse is a function.

14. The set of all possible ordered pairs (a, b) composed of elements taken from the two sets, A and B .

Down

1. A function is one-to-one if each element in its range is paired with exactly one element from its domain.

2. A function is undefined at a given value of its independent variable if for that value, there is no output--this occurs when a particular input creates a situation in which there is division by zero, or an even root of a negative number, for example.

3. A function is piecewise if and only if it uses different rules for different parts of its domain

6. A function f is even if f (x) = f (- x) .

7. when a<1 and the graph is stretched along the x-axis

8. A relation which assigns a correspondence from the elements of the range to those of the domain. The inverse of a function or relation can be found by interchanging the variables in the function or relation.

9. A function is defined at a given value of the independent variable if it assigns that input an output; defined means "takes on a value".