

PRECALC CH. 1A JOURNAL
Functions

1. Write the meaning of each of the following symbols:
 (a) \subset _____ (b) \in _____
 (c) \cap _____ (d) \cup _____
2. (a) When you join two different intervals together, you have created the _____ of the interval.
3. (b) When you have found the values in common to two different intervals, you have found the _____ of the intervals.
4. Given that f is a piecewise function, you would find $f(-4)$ by _____.
5. Given each of the following types of relations, how can you determine if each is a function?
6. (a) set of ordered pairs _____
 (b) graph _____
 (c) an equation _____
7. (a) Given the graph of a function, you can identify the domain by _____.
- (b) Given the graph of a function, you can identify the range by _____.
8. To find the domain of a function created by the combination of two functions such as $f + g$ or $f \circ g$, you must find consider _____ and _____.
9. Important Rules, Formulas, Etc.
 List the following rules, formulas, or steps. When giving formulas, be sure to indicate what each part of the formula represents.
 - a) Using the following system of equations, show the expression that should be entered in your calculator to solve the system using matrix equations.

$$ax + by + cz = d$$

$$ex + fy + gz = h$$

$$jx + ky + mz = n$$

b) Chart for finding the domain of polynomials, rational expressions, and roots that you were given in class

Type of Function	Domain Restrictions	Method to Solve