Family of Functions – Worksheet #3 Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Increasing, Decreasing or Constant? Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Hour \_\_\_\_\_\_\_\_

a. Fill in the increasing, decreasing and/or constant interval(s) for each relation. b. Then, fill in positive and/or negative intervals for each.

1) 2) 3)

  

 a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_ decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4) 5) 6)

  

 a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_ decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7) 8) 9)

  

 a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_ decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10) 11) 12)

  

a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ a. increasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_ decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ decreasing \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ constant \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ b. positive \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ negative \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_