Writing Equations with Domain and Range Worksheet

Given the graph of \( f(x) \), write the equation for each piece of the graph using the endpoints of each piece. State the domain and range for each piece.

1. Write the equation for “a”.

   \[
   \text{Domain: } \ldots \\
   \text{Range: } \ldots
   \]

2. Write the equation for “b”.

   \[
   \text{Domain: } \ldots \\
   \text{Range: } \ldots
   \]

3. Write the equation for “c”.

   \[
   \text{Domain: } \ldots \\
   \text{Range: } \ldots
   \]

What is the domain and range of Graph I?

5. Write the equation for “e”.

   \[
   \text{Domain: } \ldots \\
   \text{Range: } \ldots
   \]

6. Write the equation for “f”.

   \[
   \text{Domain: } \ldots \\
   \text{Range: } \ldots
   \]

7. Write the equation for “g”.

   \[
   \text{Domain: } \ldots \\
   \text{Range: } \ldots
   \]

What is the domain and range of Graph II?

8. Write the equation for “h”.

   \[
   \text{Domain: } \ldots \\
   \text{Range: } \ldots
   \]
State the domain and range for each of the following. Is the relation a function?

9. Domain:__________________
   Range:___________________
   Function? YES NO

10. Domain:__________________
   Range:___________________
   Function? YES NO

11. Domain:__________________
    Range:___________________
    Function? YES NO

12. Domain:__________________
    Range:___________________
    Function? YES NO

13. Domain:__________________
    Range:___________________
    Function? YES NO

14. Domain:__________________
    Range:___________________
    Function? YES NO

15. Domain:__________________
    Range:___________________
    Function? YES NO

16. Domain:__________________
    Range:___________________
    Function? YES NO

17. Domain:__________________
    Range:___________________
    Function? YES NO