1. \( f(x) = mx + b \)

   Domain
   Increasing when
   Decreasing when
   Constant when
   Even, Odd, or Neither? __________

2. \( f(x) = |x| \)

   Domain
   Increasing
   Decreasing
   Even, Odd, or Neither? __________

3. \( f(x) = x^2 \)

   Domain
   Increasing
   Decreasing
   Even, Odd, or Neither? __________

4. \( f(x) = x^3 \)

   Domain
   Increasing
   Decreasing
   Even, Odd, or Neither? __________

5. \( f(x) = \sqrt{x} \)

   Domain
   Increasing
   Decreasing
   Even, Odd, or Neither? __________

(PLEASE TURN OVER!)
6. \( f(x) = \sqrt[3]{x} \)

   Domain ____________
   Increasing ____________
   Decreasing ____________
   Even, Odd, or Neither? ____________

7. \( f(x) = \frac{1}{x} \)

   Domain ____________
   Increasing ____________
   Decreasing ____________
   Even, Odd, or Neither? ____________

8. **True** or **False**: The greatest integer function is an even function, just like a constant function.

9. The greatest integer function is an example of a function that has a ____________, or an \( x \)-value at which the graph suddenly “steps” from one value to another without taking on any of the intermediate values.

10. Functions that are defined by more than one equation are called ____________- ____________
    ____________.