Analyze Graphs

1) **Equation of Graph**
   \[ y = 2^x \]

2) **Calculator Notation**
   \[ Y1 = 2^X \]

3) **What Type of Graph is this?**

4) **Function?** yes/no

5) **One-to-One Function?** yes/no

6) **State any Symmetry:**

7) **Domain:**

8) **Range:**

9) **x-intercept(s):**

10) **y-intercept:**

11) **Where is \( f(x) < 0 \) ?**
    State the x-values using interval notation

12) **Where is \( f(x) \geq 0 \) ?**
    State the x-values using interval notation

13) **Where does \( f(x) = 0 \) ?**
    List the x-value(s)

14) **Where is \( f(x) \) increasing?**
    State the x-values using interval notation

15) **Where is \( f(x) \) decreasing?**
    State the x-values using interval notation

16) **What is the Absolute Maximum value?**

17) **What is the Absolute Minimum value?**

18) **Are there any Asymptotes?**
    If yes, then give the equation(s)
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