1. The graph below is a graph of $y = f(x)$. Rank $f'(0), \ f'(7), \ f'(11), \ f'(13)$ in increasing order.

   ![Graph of $f(x)$](image)

2. Consider the function $g(x) = \frac{1}{1 - \sqrt{x}}$.

   (a) What is the domain of $g(x)$?

   (2a) _________________________________

   (b) Is 1 is the range of $g(x)$? Explain your answer.

   (2b) _________________________________
3. Let \( h(x) = \log_b x \) where \( b > 1 \).

(a) What is the domain of \( h(x) \)? 

(b) What is the range of \( h(x) \)?

(c) What are the root(s) of \( h(x) \)?

(d) Is the graph of \( h(x) \) concave up or concave down?