Quiz 2, 6/23/25

1) Draw a function that has all of these properties:

- * It is decreasing on (0, 15) and (25, 27).
- * It is increasing on (15, 25).
- * It is positive on (0, 6) and (21, 27).
- * It is negative on (6, 21).
- * The range is [-8, 10].

2) Write as a composition of two functions:

$$h(x) = \sqrt{x^2 + 16}$$

Ans:



 $2) f(x) = \sqrt{x}$ g(x) = x² + 16 h(x) = f(g(x))