First Quiz for Math 30

1. Find the domain and range of the function whose graph is shown below:

![Graph](image)

2. Find the domain of the following two functions:
   (a) \( f(x) = \sqrt{4 - 3x} \)
   
   (b) \( g(x) = \frac{3x}{x^2 - 16} \)
   
   (c) \( f(x) = \sqrt{3 + x^2} \)

3. Find the range of the following functions:
   (a) \( h(x) = 2x + 1 \) with domain \((-2, 4] \).
   
   (b) \( g(x) = \frac{3}{x - 1} \)