Worksheet Section 1.6

1. Plot the graph of the function f and find the domain and range of f^{-1} where $f(x) = 1 + \sqrt{1 - x^2}\,, 0 \leq x \leq 1$.

2. Find the inverse of the function

$$g(x) = \frac{2x + 5}{3x - 4}$$

3. Determine if h is an injective (one-to-one) function

$$h(x) = x^2 + 8x + 7$$

If h is not one-to-one, find an interval on which it is going to be one-to-one

4. Plot the inverse of the following graph below $y = -2\log(\frac{x-1}{\sqrt{x}})$