1. Given one-to-one functions $f(x) = x^3 + 4$ and $g(x) = \sqrt[3]{x - 4}$, verify that $g = f^{-1}$.

2. Let $f(x) = |3x|$ and $g(x) = \sqrt{x}$.
   
   (i) Evaluate $(g \circ f)(-3) + (f \circ g)(4)$.

   (ii) Define a new function $h$ by shifting $f$ to the left by 4 units and down by 3 units. Express $h$ as a function of $x$.

3. Given the one-to-one function $f(x) = \frac{2}{x - 3}$, state the range of $f^{-1}$ in interval notation.