Find an expression for $f^{-1}(x)$.	

The function g is defined by $g: x \mapsto 4x + a$ for $x \in \mathbb{R}$, where a is a constant. (ii) Find the value of a for which gf(-1) = 3. [3] (iii) Find the possible values of a given that the equation $f^{-1}(x) = g^{-1}(x)$ has two equal roots. [4]