2 The functions f and g are defined for $x \in \mathbb{R}$ by

$$f: x \mapsto 3x + a$$
,
 $g: x \mapsto b - 2x$,

where a and b are constants. Given that ff(2) = 10 and $g^{-1}(2) = 3$, find

(i) the values of a and b, [4]

(ii) an expression for fg(x). [2]