4 $f(x) = 2x - 1$ $g(x) = 3x - 2$ $h(x) = \dfrac{1}{x}, \; x \neq 0$ $j(x) = 5^x$

(a) Find

     (i)   f(2),

.... [1]

     (ii)   gf(2).

.... [1]

(b) Find $g^{-1}(x)$.

$g^{-1}(x) =$ .... [2]

(c) Find x when $h(x) = j(-2)$.

$x =$ .... [2]

(d) Write $f(x) - h(x)$ as a single fraction.

.... [2]

(e) Find the value of jj(2).

.... [1]

(f) Find x when $j^{-1}(x) = 4$.

$x =$ .... [2]