

14 $f(x) = 3x - 4$ $g(x) = 4x + 1$

(a) Find $f(-2)$.

..... [1]

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

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

(c) $fg(x) = ax + b$

Find the value of a , and the value of b .

$a =$ $b =$ [2]

(d) Simplify.

$$\frac{2}{f(x)} - \frac{5}{g(x)}$$

Give your answer as a single fraction in terms of x .

..... [3]