

3

$$f(x) = 1 + 4x$$

$$g(x) = x^2$$

(a) Find

(i) $gf(3)$,

..... [2]

(ii) $fg(x)$,

..... [1]

(iii) $f^{-1}f(x)$.

..... [1]

(b) Find the value of x when $f(x) = 15$. $x =$ [2]