Evaluating Functions

(a) $f(x) = 5x + 2$

Find (i) $f(3)$ (ii) $f(7)$
(iii) $f(-4)$ (iv) $f(-0.5)$

(b) $f: \rightarrow x^2 - 4$

Find (i) $f(4)$ (ii) $f(6)$
(iii) $f(-2)$ (iv) $f(0.9)$

(c) $g(x) = x^3 - 3x^2 - 2x + 1$

Find (i) $g(0)$ (ii) $g(1)$
(iii) $g(-1)$ (iv) $g(1.5)$

(d) $f(x) = \sqrt{2x + 5}$

Find (i) $f(2)$ (ii) $f(10)$
(iii) $f(-2)$ (iv) $f(-1.78)$

(e) The functions f and g are such that
$f(x) = 3x - 5$ and $g(x) = 4x + 1$

(i) Find $f(-1)$ and $g(2)$

(ii) Find the value of x for which
$f(x) = g(x)$.

(f) The functions f and g are such that
$f(x) = 2x^2 - 1$ and $g(x) = 5x + 2$

(i) Find $f(-3)$ and $g(-5)$

(ii) Find the two values of x for which
$f(x) = g(x)$.

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