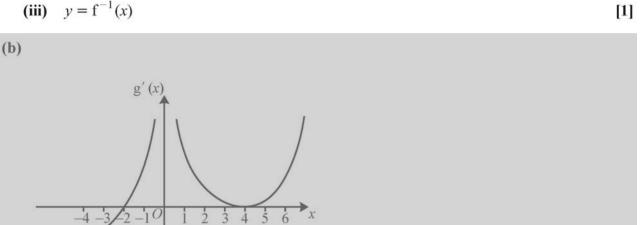
(a) The graph of the function y = f(x) passes through the point P with coordinates (2, 6), and 5 is a one-one function. State the coordinates of the point corresponding to P on each of the following curves. y = f(x) + 3(i) [1]

(i)
$$y = f(x) + 3$$
 [1

(ii)
$$y = 2f(3x-1)$$
 [2]



The diagram shows part of the graph of y = g'(x). This is the graph of the gradient function of

y = g(x). The graph intersects the x-axis at x = -2 and x = 4.

[1]

[1]

State the x-coordinate of any points of inflection on the graph of y = g(x).

(ii) State the set of values of x for which y = g(x) is a decreasing function.

(iii)

State the x-coordinate of any stationary points on the graph of y = g(x). (i) [1]