

(a) Two functions are defined as follows:

$$g(x) = 4x + 3$$

$$f(x) = \frac{2x + 7}{x + 1}$$

(i) State the value of  $x$  for which  $f(x)$  is undefined. (1 mark)  
 $x = -1$

(ii) Calculate the value of  $gf(5)$ . (3 marks)

(iii) Find  $f^{-1}(x)$ . (3 marks)

(b) A ball is thrown vertically upwards. Its height,  $h$  metres, above the ground after  $t$  seconds is shown in the table below.

$t$ (s)	0	1	2	3	4	5	6
$h$							

Handwritten calculations for (ii):

$$g\left(\frac{17}{3}\right) = 24\left(\frac{17}{3}\right) + 3$$

$$= \frac{34}{3} + 3$$

$$= \frac{34}{3} + \frac{9}{3} = \frac{43}{3}$$

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