

- (a) Two functions are defined as follows:

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

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

$$\begin{aligned} g\left(\frac{17}{6}\right) &= 4\left(\frac{17}{6}\right) + 3 \\ &= \frac{34}{3} + 3 \\ &= \frac{34}{3} + \frac{9}{3} = \frac{43}{3} \end{aligned}$$

- (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
------------	---	---	---	---	---	---	---

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