

Full marks are not necessarily awarded for a correct answer with no working. Answers must be supported by working and/or explanations. Where an answer is incorrect, some marks may be given for a correct method, provided this is shown by written working. You are therefore advised to show all working.

Section A

Answer all questions. Answers must be written within the answer boxes provided. Working may be continued below the lines if necessary.

1. [Maximum mark: 6]

Let $f(x) = \sqrt{x+2}$ for $x \geq -2$ and $g(x) = 3x - 7$ for $x \in \mathbb{R}$.

(a) Write down $f(14)$.

[1]

(b) Find $(g \circ f)(14)$.

[2]

(c) Find $g^{-1}(x)$.

[3]

$$\begin{aligned} \textcircled{a} \quad f(14) &= \sqrt{14+2} \\ &= \sqrt{16} \\ &= 4 \end{aligned}$$

$$\begin{aligned} \textcircled{b} \quad (g \circ f)(14) &\text{ means } g(f(14)) = g(4) \\ &= 3(4) - 7 \\ &= 5 \end{aligned}$$

$$\begin{aligned} \textcircled{c} \quad g(x) &= 3x - 7 \\ &\text{--- set ---} \\ &\text{inverse is a switch} \\ &\text{of the } x \text{ and } y \\ x &= 3y - 7 \\ x + 7 &= 3y \\ \frac{x+7}{3} &= y \\ g^{-1}(x) &= \frac{x+7}{3} \end{aligned}$$



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Peipei Pang



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