(12) (a)
$$f(5-x)$$
 (b) Undefined when: $5-x < 0$

5-06 0

->c \ -5

oc 7,5

| Question | | n | Generic scheme | Illustrative scheme | Max mark |
|----------|-----|---|----------------------------------|--|-------------|
| 12. | (a) | | •¹ interpret notation | •¹ $f(5-x)$ or $\frac{1}{\sqrt{g(x)}}$ | 2 |
| | | | • state expression for $f(g(x))$ | $\bullet^2 \frac{1}{\sqrt{5-x}}$ | |

Notes:

1. For $\frac{1}{\sqrt{5-x}}$ without working, award both \bullet^1 and \bullet^2 .

Commonly Observed Responses:

Candidate A

$$5-\frac{1}{\sqrt{x}}$$

•¹ **x** •² **√** 1

| (b) |
|-----|
| (b) |

•³ state range

$$\bullet^3 \quad x \ge 5$$

1

Notes:

- 2. Answer at \bullet^3 must be consistent with expression at \bullet^2 .
- 3. For candidates who interpret g(f(x)) as f(g(x)), do not award \bullet^3 .

Commonly Observed Responses:

Candidate B

$$5-\frac{1}{\sqrt{x}}$$

•¹ **x** •² **√** 1

$$x \le 0$$

•³ 🗶