Find the functional value g(-1), g(0), g(4) for the compound function

$$g(x) = \begin{cases} 7, & x \le 0\\ \frac{1}{x}, & x \ge 0 \end{cases}$$

Solution

| x = -1 | => | g(x) = 7 | => | g(-1) = 7 |
|--------------|----|----------------------|----|----------------------|
| x = 0 | => | g(x) = 7 | => | g(0) = 7 |
| <i>x</i> = 4 | => | $g(x) = \frac{1}{x}$ | => | $g(4) = \frac{1}{4}$ |

Answer:
$$g(-1) = 7$$
, $g(0) = 7$, $g(4) = \frac{1}{4}$.