

Evaluate each piecewise function at the given values of the independent variable.

1. $f(x) = \begin{cases} 3x + 5 & \text{if } x < 0 \\ 4x + 7 & \text{if } x \geq 0 \end{cases}$

a. $f(-2)$

b. $f(0)$

c. $f(3)$

2. $g(x) = \begin{cases} x + 3 & \text{if } x \geq -3 \\ -(x + 3) & \text{if } x < -3 \end{cases}$

a. $g(0)$

b. $g(-6)$

c. $g(-3)$

3. $h(x) = \begin{cases} \frac{x^2 - 9}{x - 3} & \text{if } x \neq 3 \\ 6 & \text{if } x = 3 \end{cases}$

a. $h(5)$

b. $h(0)$

c. $h(3)$