

Functions Exit Quiz

Multiple Choice

1. If $g(x) = \frac{2x-4}{x-2}$ then $g(-4)$ is:

a.) 6

b.) -3

c.) 12

d.) 2

2. The domain of $h(x) = \frac{1}{\sqrt{x-6}}$ is:

a.) $[6, \infty)$

b.) $(6, \infty)$

c.) $[-6, \infty)$

d.) $(-6, \infty)$

3. Write each set of numbers in set-builder and interval notation.

Inequality Notation	Set-builder notation	Interval notation
$x \leq -4$		
$-5 < x \leq 1$		
$-2 \leq x \text{ or } x \geq 5$		

4. Evaluate piecewise function.

$$f(x) = \begin{cases} -x^2 + 7, & \text{if } x < -1 \\ -x^3, & \text{if } -1 < x < 5 \\ 2, & \text{if } x > 5 \end{cases}$$

$$f(-2) = ?$$

$$f(3) = ?$$

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5. Find the functions value.

$$h(x) = \frac{x^2 + 2x + 4}{2x^2 - x - 1}$$

$$h(-3) = ?$$

$$h(m + 4) = ?$$