

Piecewise Function Worksheet

For problems 1-12, evaluate the function for the given value of x.

$$f(x) = \begin{cases} 3, & \text{if } x \leq 0 \\ 2, & \text{if } x > 0 \end{cases}$$

$$g(x) = \begin{cases} x+5, & \text{if } x \leq 3 \\ 2x-1, & \text{if } x > 3 \end{cases}$$

$$h(x) = \begin{cases} \frac{1}{2}x-4, & \text{if } x \leq -2 \\ 3-2x, & \text{if } x > -2 \end{cases}$$

1. $f(2)$

2. $f(-4)$

3. $f(0)$

4. $f(\frac{1}{2})$

5. $g(7)$

6. $g(0)$

7. $g(-1)$

8. $g(3)$

9. $h(-4)$

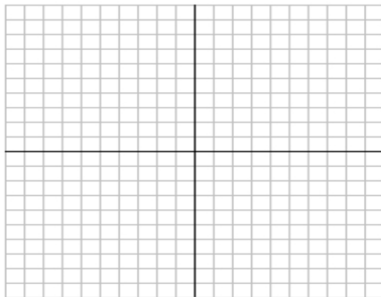
10. $h(-2)$

11. $h(-1)$

12. $h(6)$

Graph the function

13. $f(x) = \begin{cases} 2x-3, & \text{when } x \leq 1 \\ 3x+1, & \text{when } x > 1 \end{cases}$



14. $f(x) = \begin{cases} x-1, & \text{when } x < 2 \\ 2x+1, & \text{when } x \geq 2 \end{cases}$

