

Absolute Value Functions

Name: _____

Given: $f(x) = |4x - 3| + 2$; $g(x) = \frac{-1}{3}|x + 4|$; $h(x) = 2|5 - x| + 1$; $j(x) = \frac{|2x+3|}{3} - 3$

Evaluate the following.

1) $g(-5)$

2) $h(2)$

3) $f(9)$

4) $f(-10)$

5) $j(-6)$

6) $h(0)$

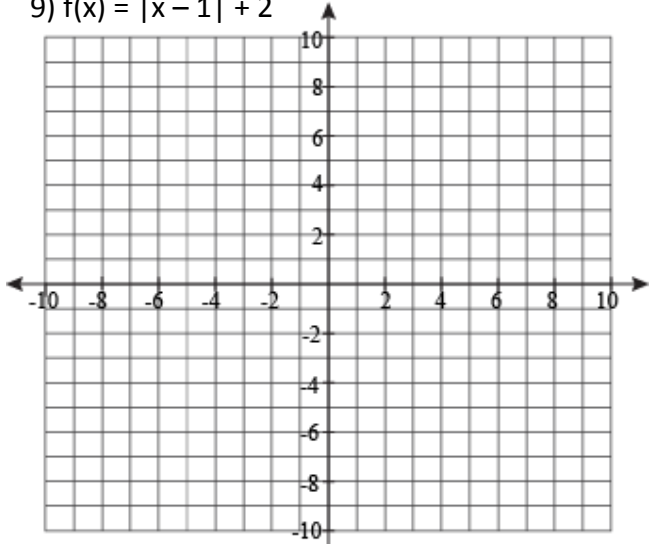
Evaluate the following. Leave your answers as expressions in terms of x .

7) $f(x - 2)$

8) $g(4 - 2x)$

Graph each function and identify the specified attributes of the graph.

9) $f(x) = |x - 1| + 2$



Vertex: _____ Opens: _____

Slopes: _____

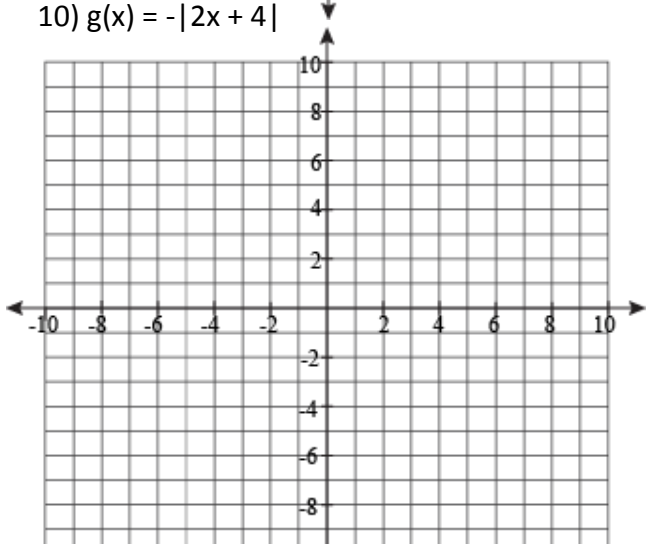
Increasing: _____ Decreasing: _____

Domain: _____ Range: _____

x-intercept(s): _____ y-intercept: _____

End behavior: _____
and _____

10) $g(x) = -|2x + 4|$



Vertex: _____ Opens: _____

Slopes: _____

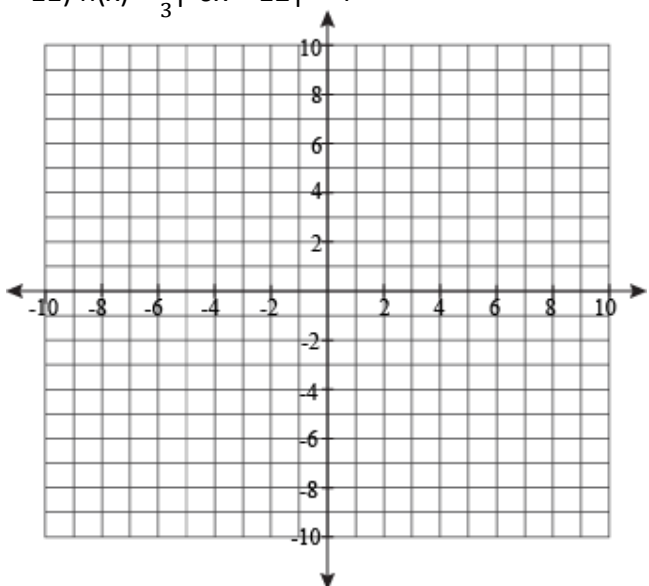
Increasing: _____ Decreasing: _____

Domain: _____ Range: _____

x-intercept(s): _____ y-intercept: _____

End behavior: _____
and _____

11) $h(x) = \frac{2}{3}|-6x + 12| - 4$



Vertex: _____ Opens: _____

Slopes: _____

Increasing: _____ Decreasing: _____

Domain: _____ Range: _____

x-intercept(s): _____ y-intercept: _____

End behavior: _____
and _____