Determine whether the given function is even, odd, or neither.

3) $f(x) = x^3 - 5x + 8$

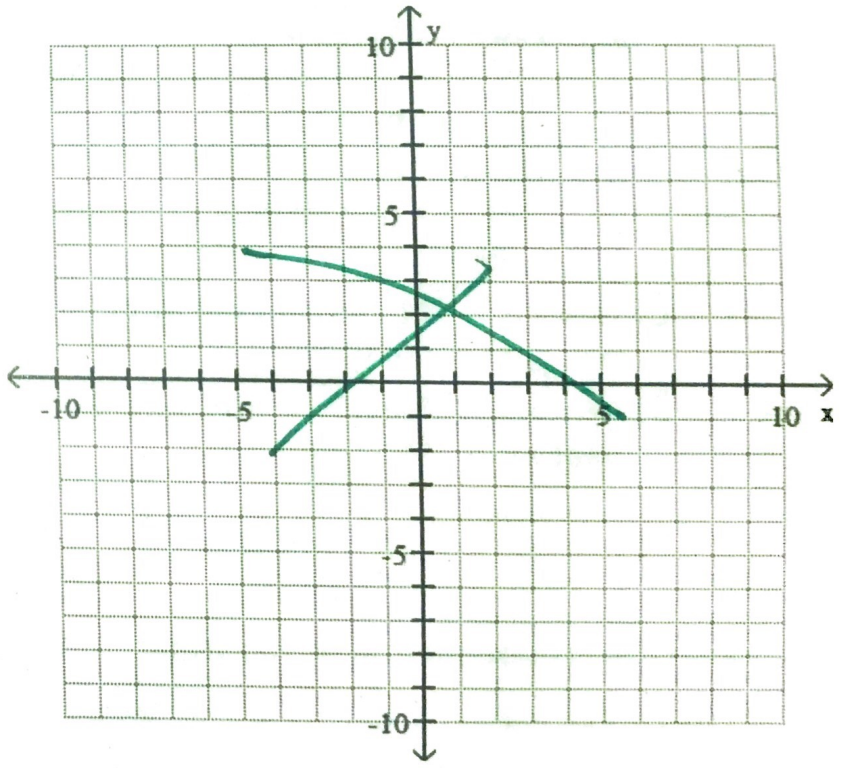
A) Even

B) Neither

C) Odd

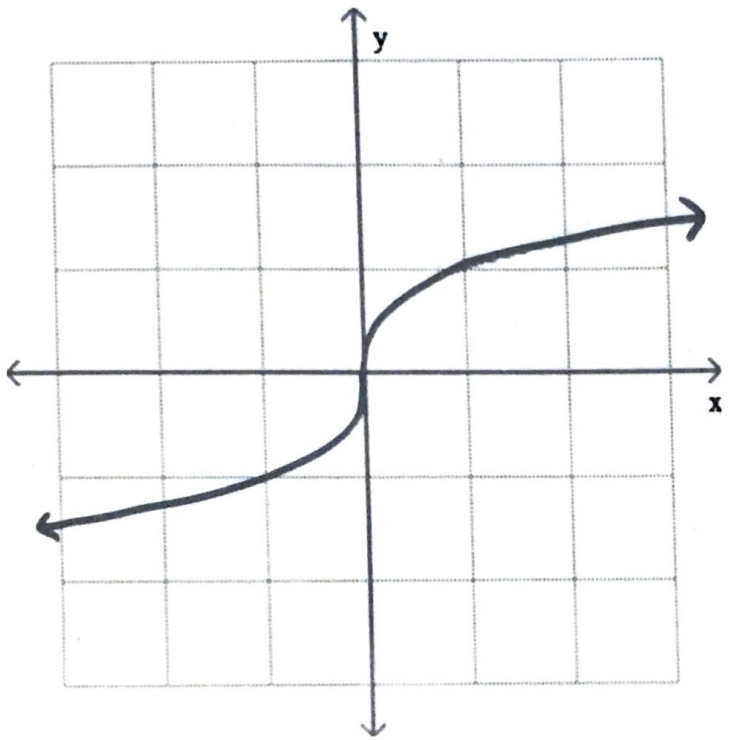
Graph the function. The domain of the function is $(-\infty, \infty)$. Remember to graph the open point

7) $f(x) = \begin{cases} x + 4 & \text{if } x \leq 3 \\ -2x + 7 & \text{if } x > 3 \end{cases}$



Use the shape of the graph to name the function.

11)



A) $f(x) = C$

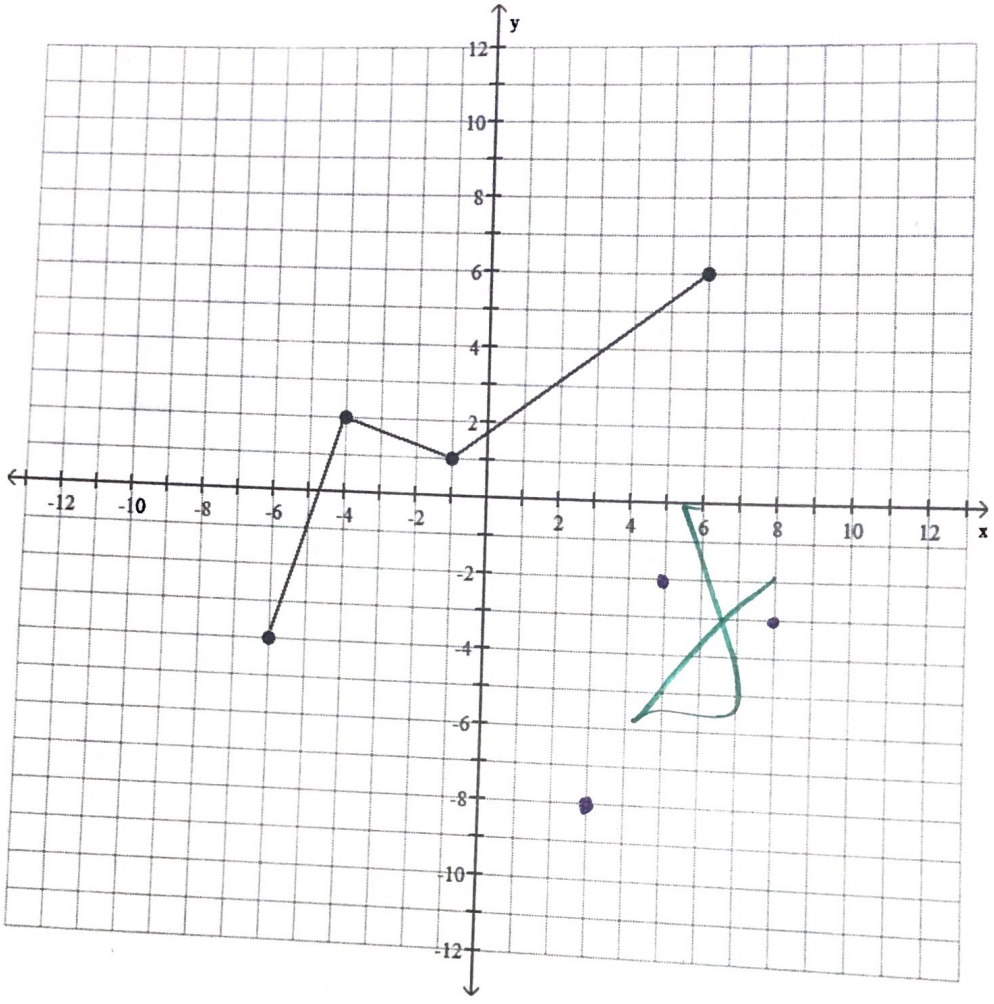
B) $f(x) = \sqrt{x}$

C) $f(x) = \sqrt[3]{x}$

D) $f(x) = x^3$

14) g(x) = - f(x + 3) - 4

You can do this graphically or algebraically



For the given functions f and g , find the indicated composition.

18) $f(x) = \frac{6}{x - 3}$, $g(x) = \frac{4}{7x}$

$(f \circ g)(x)$

Find functions f and g so that $h(x) = (f \circ g)(x)$.

19) $h(x) = |6x + 8|$

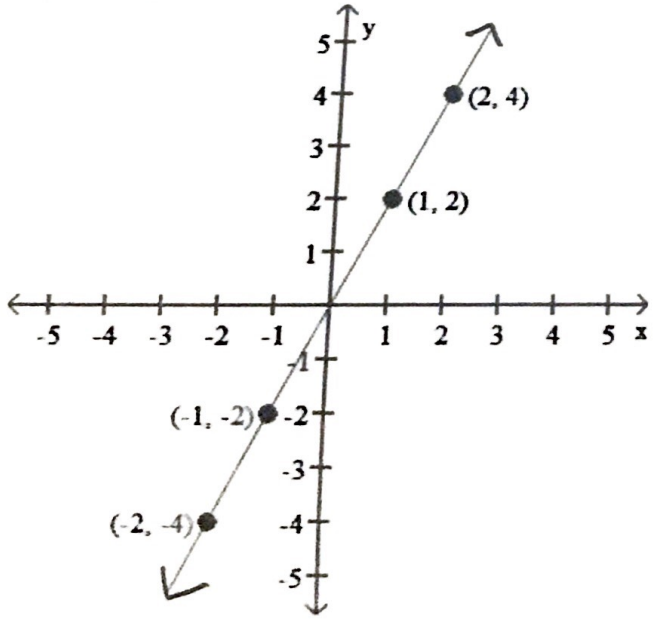
f(x) = _____

g(x) = _____

Use the graphs to evaluate the expression.

20) $(f \circ g)(1)$

y = f(x)



y = g(x)