

**Piecewise Functions**

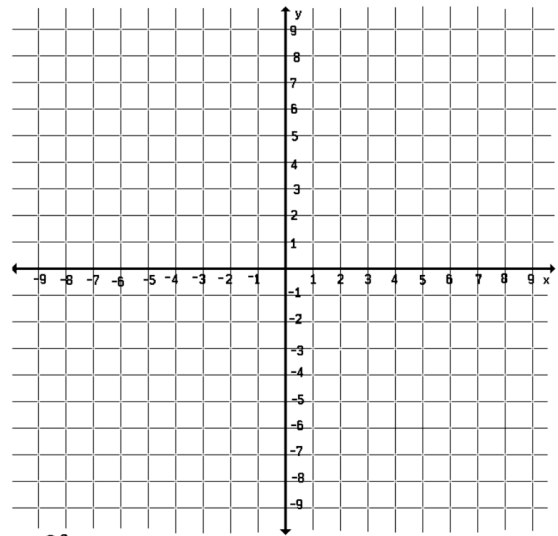
1. Given  $f(x) = \begin{cases} x + 2 & \text{if } x \geq 4 \\ -x - 6 & \text{if } x < 4 \end{cases}$

A.)  $f(5)$

B.)  $f(4)$

C.)  $f(-2)$

D.) Graph  $f(x)$  on the coordinate plane provided



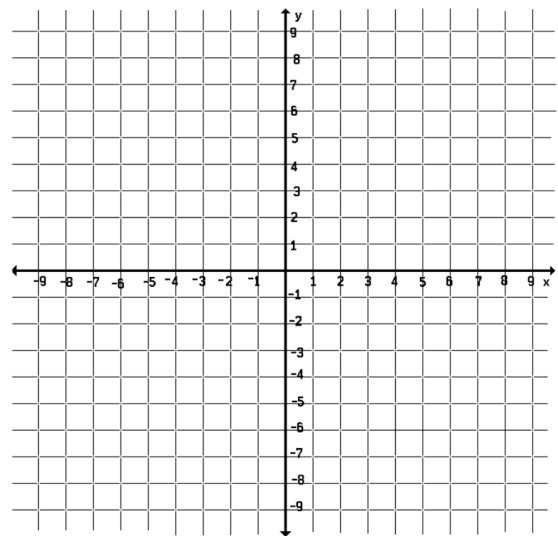
2. Given  $h(x) = \begin{cases} -2x + 8 & \text{if } x > 2 \\ \frac{3}{2}x - 4 & \text{if } x = 2 \\ |x| & \text{if } x < 2 \end{cases}$

A.)  $h(2)$

B.)  $h(1)$

C.)  $h(4)$

D.) Graph  $h(x)$  on the coordinate plane provided



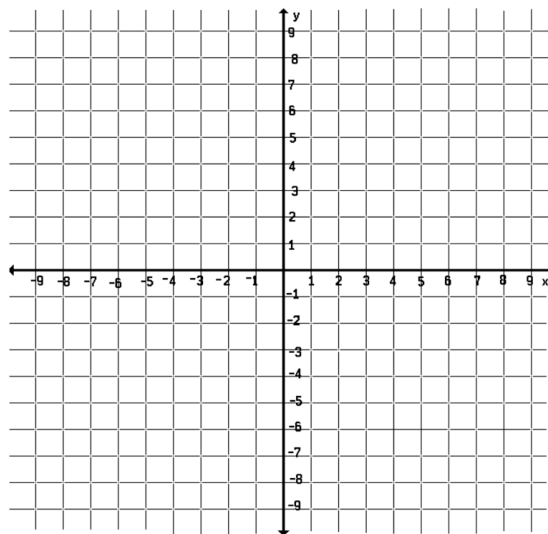
3. Given  $g(x) = \begin{cases} 4 & \text{if } 0 \leq x < 2 \\ 5 & \text{if } 2 \leq x < 4 \\ 6 & \text{if } 4 \leq x < 6 \end{cases}$

A.)  $g(1)$

B.)  $g(4)$

C.)  $g(2)$

D.) Graph  $g(x)$  on the coordinate plane provided



4. Write a piecewise function given the graphs provided below.

