

Station 1

Question 1: Evaluate the following function

$$f(x) \begin{cases} 7x - 13, & \text{if } -6 > x \\ -3x + 8, & \text{if } -6 \leq x < 7 \\ \frac{1}{4}x + 9, & \text{if } 7 \leq x \end{cases}$$

f(3)

f(-9)

f(7)

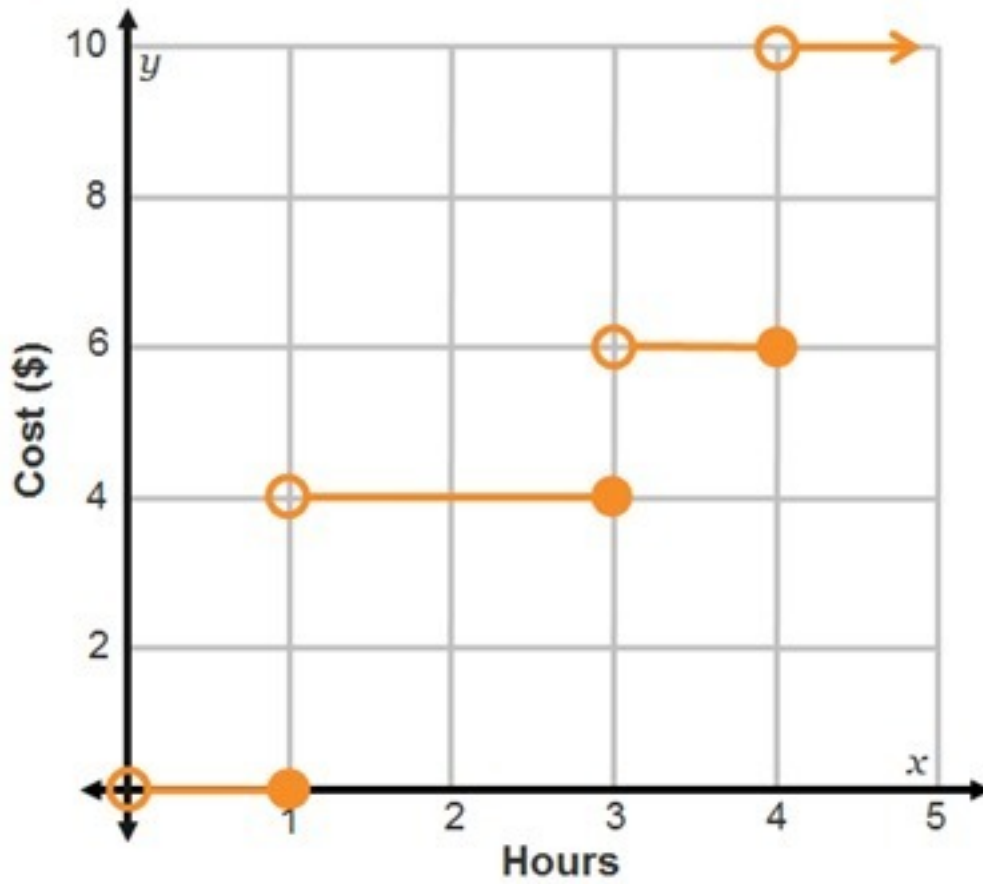
f(13)

f(-2)

Station 2

Create the function that defines the following step function graph:

Hint: Your answer should be a piecewise function.



Station 3

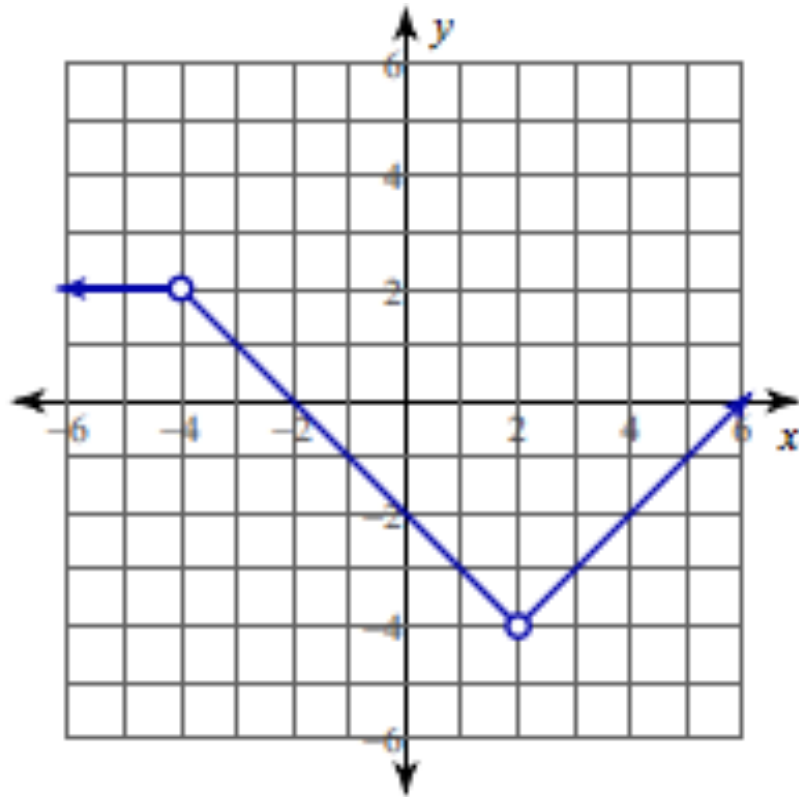
Graph the following STEP function.

$$f(x) = \begin{cases} -3; & x < -2 \\ 0; & -2 \leq x \leq 1 \\ 3; & x > 1 \end{cases}$$

Station 4

Create the function that defines the following piecewise graph:

Hint: Your answer should be a piecewise function.



Station 5

Evaluate the following function:

$$f(t) = \begin{cases} -4 & \text{if } t < 6 \\ 25 & \text{if } 6 \leq t < 8 \\ 16 & \text{if } 8 \leq t < 30 \\ 10 & \text{if } t \geq 30 \end{cases}$$

$f(18)$

$f(6)$

$f(43)$

$f(0)$

$f(8)$

$f(30)$

$f(-19)$

$f\left(\frac{41}{5}\right)$

Station 6

Graph the following piecewise function.

$$f(x) = \begin{cases} x + 3, & x \leq 0 \\ 3, & 0 < x \leq 2 \\ 2x - 1, & x > 2 \end{cases}$$