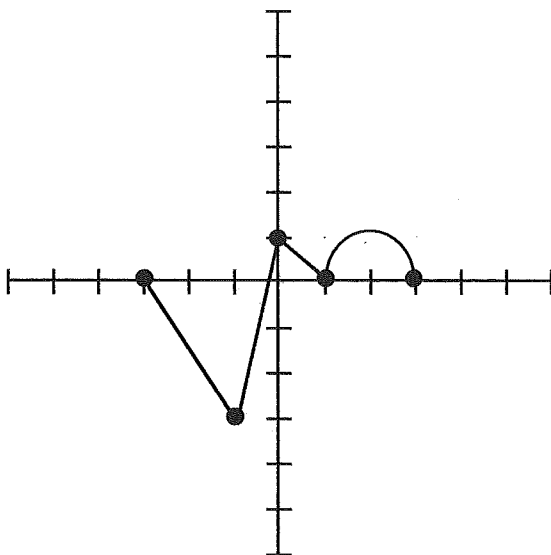


### Activity: Move the Monster

Given :  $h(x)$



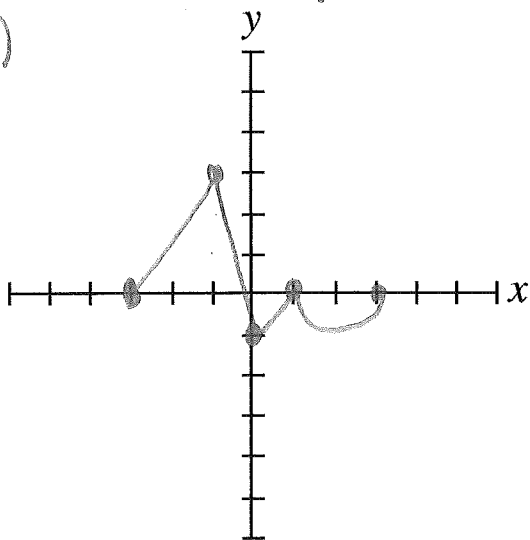
$$\begin{aligned} h(-3) &= 0 \\ h(-1) &= -3 \\ h(0) &= 1 \\ h(1) &= 0 \\ h(3) &= 0 \end{aligned}$$

Sketch the graph of:

1.  $-h(x)$

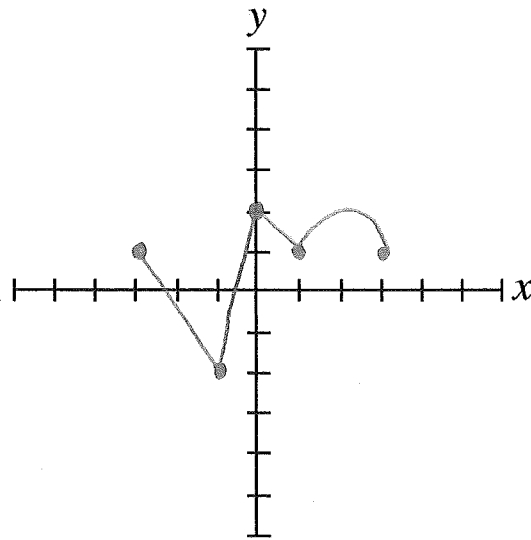
*reflection over x axis*

- $(-3, 0)$
- $(-1, 3)$
- $(0, -1)$
- $(1, 0)$

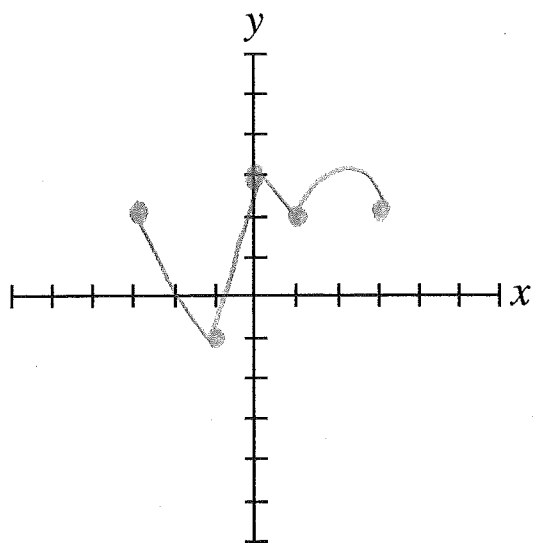


2.  ~~$h(x)$~~   $h(x) + 1$

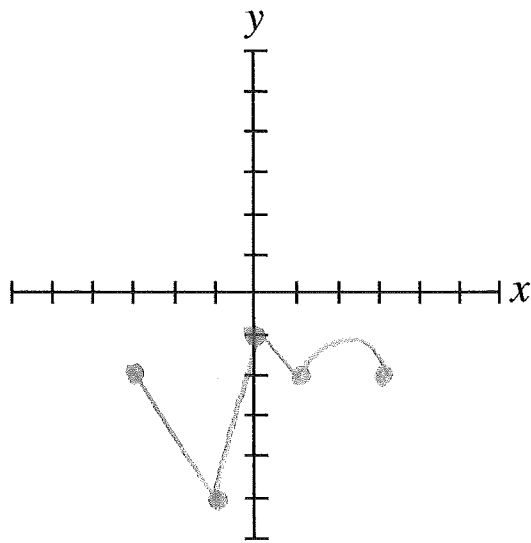
*up 1*



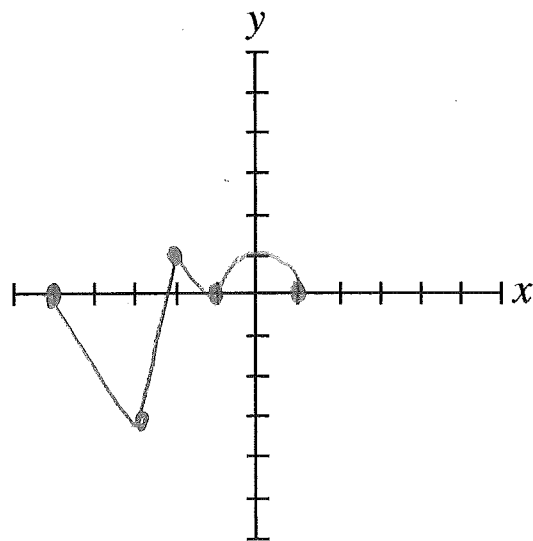
3.  $h(x)+2$  *up 2*



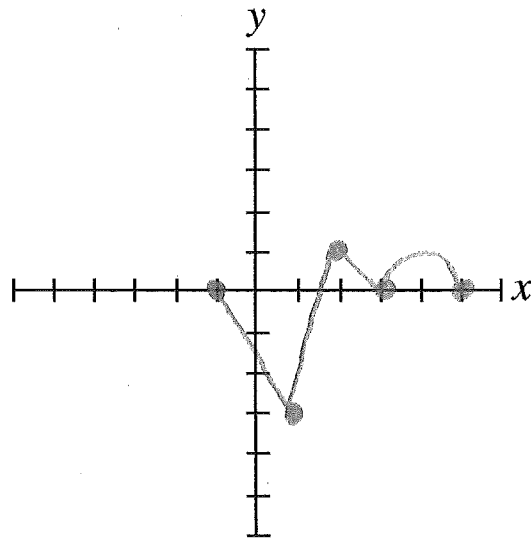
4.  $h(x)-2$  *down 2*



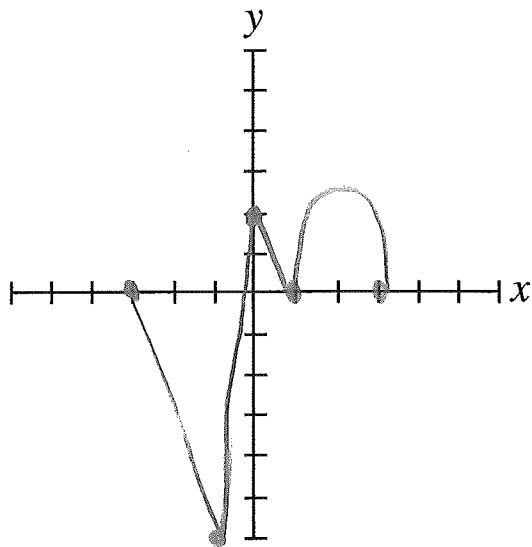
5.  $h(x+2)$  *left 2*



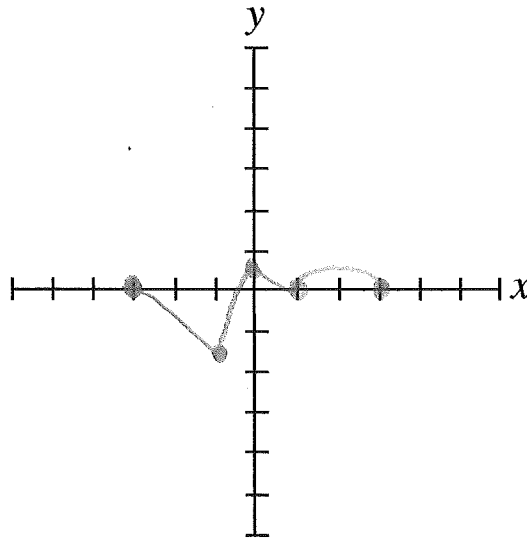
6.  $h(x-2)$  *right 2*



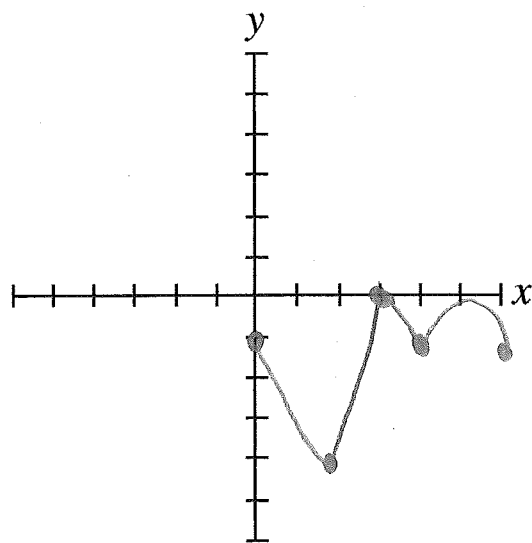
7.  $2h(x)$  stretch (double)



8.  $\frac{1}{2}h(x)$  compression (half)



9.  ~~$h(2x)$~~   $h(x-3)-1$  Right 3, down 1



10.  ~~$h(\frac{1}{2}x)$~~   $h(x+1)+3$  Left 1, up 3

