**Thinking Classroom : Piecewise Functions**

1- Graph the following function:

$$y=\left\{\begin{array}{c}-2x-3 if x<0\\x-3 if x\geq 0\end{array}\right.$$



We say that this function is defined **piecewise.**

2- Determine the equation (defined piecewise) of the following function:



3- Imagine that a pool ball that is at point $(6,3)$ follows a trajectory described by
 $y=x-3$ and then bounces on the *x*-axis.
 Which equation could describe the full trajectory?

