

Graph y = -x + 2 but only when x<2 Graph y = 1/2x - 3but only when  $x \ge 2$ 

The rule for this piecwise function:

$$f(x) = \begin{cases} -x+2, \text{ if } x < 2\\ 1/2x - 3, \text{ if } x \ge 2 \end{cases}$$



For each piecewise function find f(-8) and f(5). 1.  $f(x) = \begin{cases} 2x & \text{if } x < 0 \\ 0 & \text{if } x \ge 0 \end{cases}$  $f(-8) = 2(-8) = -16 \qquad f(5) = 0$ 







