

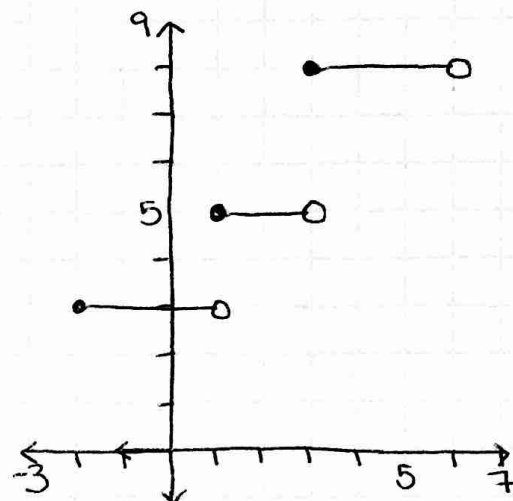
Step Functions

- Step function: looks like a stair case, constants for different domains.

graphing

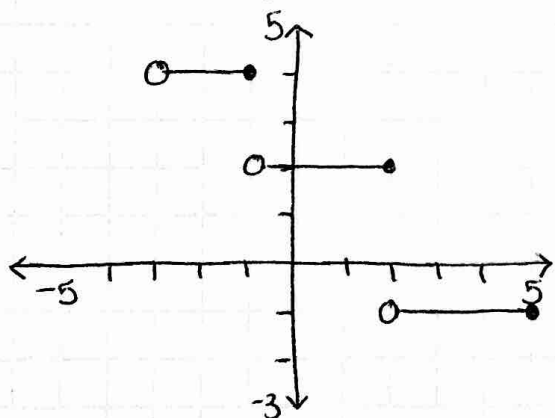
ex 1 graph

$$f(x) = \begin{cases} 3 & -2 \leq x < 1 \\ 5 & 1 \leq x < 3 \\ 8 & 3 \leq x < 6 \end{cases}$$



writing functions

ex 2 given the graph, write the function.



$$f(x) = \begin{cases} 4 & -3 < x \leq -1 \\ 2 & -1 < x \leq 2 \\ -1 & 2 < x \leq 5 \end{cases}$$