Exercise

A. First, complete the table below

$$f(x) = \begin{cases} 2 & \text{if } x \leq -2 \\ |x| & \text{if } x > -2 \end{cases}$$

$$g(x) = \begin{cases} -x+3 & \text{if } x \leq 1 \\ 2x & \text{if } x > 1 \end{cases}$$

x	$g(x)$	$f \circ g(x)$
-3		
-2		
-1		
0		
1		
2		
3		
π		

B. Find the composition $f \circ g$ (f circle g) of the two functions defined below. Remember that $f \circ g(x)$ is, by definition $f(g(x))$. Your final answer should not have the absolute value symbol in it.