

Step Functions

Evaluate the following functions.

1) $\lceil 2.4 \rceil$

3) $\lceil 54.9 \rceil$

4) $\lceil -6.8 \rceil$

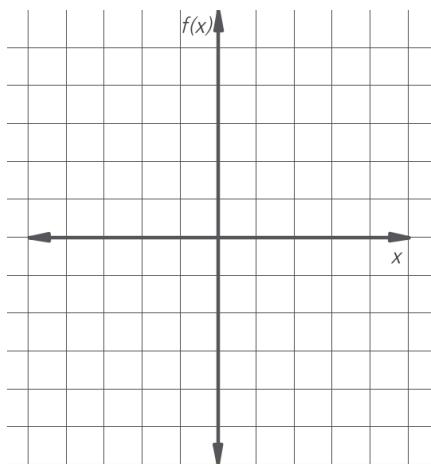
5) $2\lceil 3.6 \rceil$

6) $\lceil -15.2 \rceil + 1$

Graph the following Step Functions.

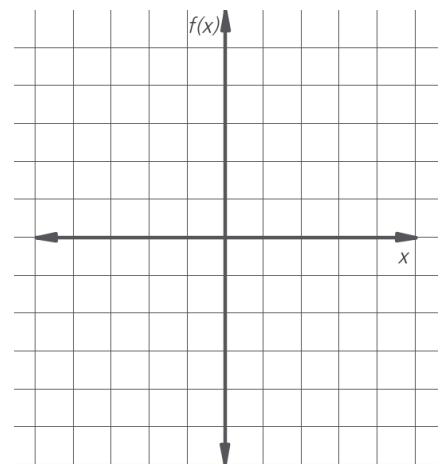
7) $y = \lceil x \rceil$

x	$\lceil x \rceil$
0	0
0.1	0
0.2	0
0.3	0
0.4	0
0.5	0
0.6	0
0.7	0
0.8	0
0.9	0
1	1
1.1	1



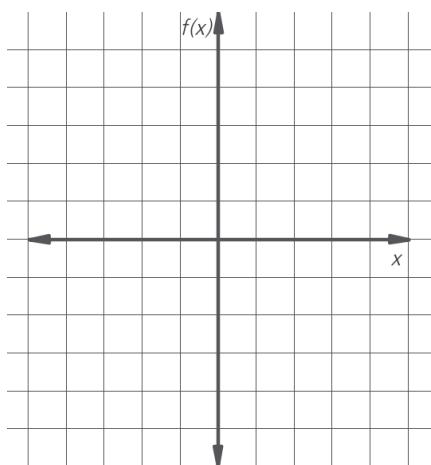
8) $f(x) = \lceil x + 1 \rceil$

x	$x + 1$	$\lceil x + 1 \rceil$
0	1	1
0.1	1.1	1
0.2	1.2	1
0.3	1.3	1
0.4	1.4	1
0.5	1.5	1
0.6	1.6	1
0.7	1.7	1
0.8	1.8	1
0.9	1.9	1
1	2	2
1.1	2.1	2



9) $g(x) = \lceil x \rceil - 2$

x	$\lceil x \rceil$	$\lceil x \rceil - 2$
0	0	-2
0.1	0	-2
0.2	0	-2
0.3	0	-2
0.4	0	-2
0.5	0	-2
0.6	0	-2
0.7	0	-2
0.8	0	-2
0.9	0	-2
1	1	-1
1.1	1	-1



10) $y = \lceil 2x - 1 \rceil$

x	$2x - 1$	$\lceil 2x - 1 \rceil$
0	-1	-1
0.1	-0.8	-1
0.2	-0.6	-1
0.3	-0.4	-1
0.4	-0.2	-1
0.5	0	0
0.6	0.2	0
0.7	0.4	0
0.8	0.6	0
0.9	0.8	0
1	1	1
1.1	1.2	1

