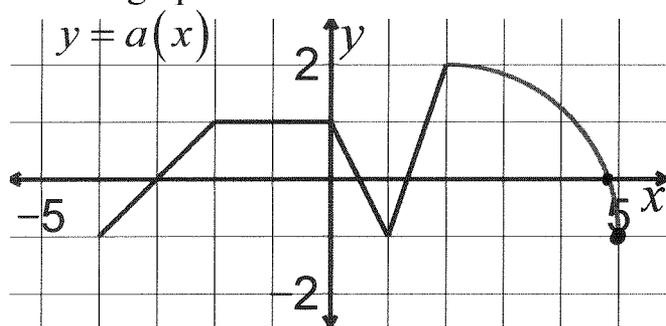


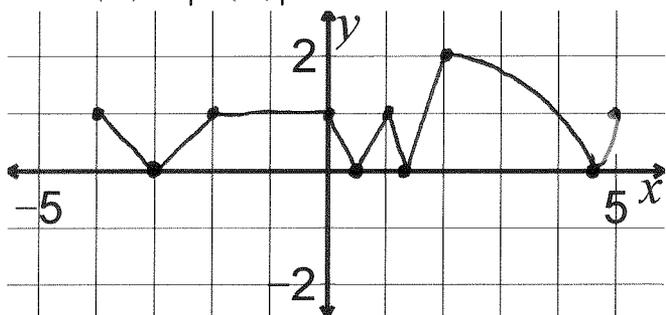
IB Math 1 5H Modulus Transformations

Use the graph of the function a .

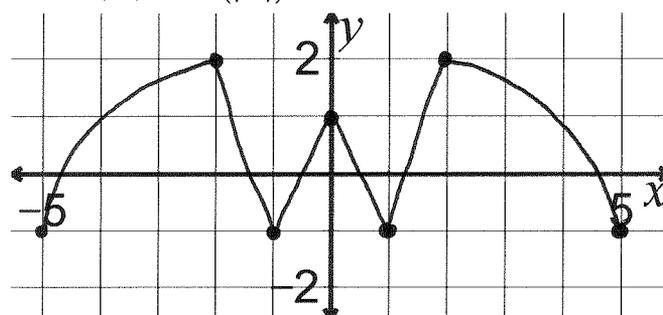


Sketch the graphs of the functions.

1. $r(x) = |a(x)|$



2. $t(x) = a(|x|)$



x	$a(x)$	$ a(x) $
-4	-1	1
-2	1	1
0	1	1
1	-1	1
2	2	2
5	-1	1

Points below x-axis
get reflected across
the x-axis.
Points above x-axis
stay where they started

x	$a(x)$
5	$a(5) = a(5) = -1$
2	$a(2) = a(2) = 2$
1	$a(1) = a(1) = -1$
0	$a(0) = a(0) = 1$
-1	$a(-1) = a(1) = -1$
-2	$a(-2) = a(2) = 2$
-5	$a(-5) = a(5) = -1$

Get rid of everything left of the y-axis.
Keep the right side and
reflect the right side across the y-axis.

HW
5H all
1st problem in each
section of
Transformation Practice
↑
Whole worksheet due Monday
due tomorrow