Following the Rules!

Sometimes, the equations (or rules) that are given in a problem are a little more complicated than y = 2x. It is important to remember the steps for evaluating equations when we are faced with more difficult rules. We can find points that fit into any equation by following three steps:

      Step 1: Substitute a number for x.

      Step 2: Solve for y according to the order of operations.

      Step 3: Record the value you calculated for y so that you can later graph the rule.

Example: For the equation $y = 2x^3 + 5x - 26$, what is y when x = 2? Show all the steps!

Example: Now try x= -3 for the same equation.

Your turn. For the following problems, fill in the table with the appropriate x and y points.

1. $y = \dfrac{24}{x}$

x	-2	-1	0	1	2
Show your work here					
y					

2. $y = x^3 - 2x^2 + 8$

x	-2	-1	0	1	2
Show your work here					
y					

3. $y = 3^x + 2$

x	-2	-1	0	1	2
Show your work here					
y					

4. $y = |x + 2|$

x	-2	-1	0	1	2
Show your work here					
y					