

Name : _____ Score : _____

Teacher : _____ Date : _____

In and Out Boxes

Fill in the Empty Boxes.

1)

In	Out
0	
5	
9	
13	

Rule: Add 5

2)

In	Out
8	
10	
15	
16	

Rule: Subtract 3

3)

In	Out
5	
10	
11	
12	

Rule: Add 4

4)

In	Out
2	
9	
12	
15	

Rule: Add 5

5)

In	3	9	11	17
Out				

Rule: Subtract 3

6)

In	1	2	8	16
Out				

Rule: Subtract 1

7)

In	2	11	13	14
Out				

Rule: Subtract 2

8)

In	9	14	15	16
Out				

Rule: Subtract 4

Write the rule and fill in the empty boxes.

9)

In	Out
5	10
10	15
11	16
15	

Rule: _____

10)

In	Out
4	7
6	9
11	14
14	

Rule: _____

11)

In	Out
3	
6	7
11	12
12	13

Rule: _____

12)

In	Out
3	
7	6
9	8
12	11

Rule: _____

13)

In	1	3	6	8
Out	3		8	10

Rule: _____

14)

In	7	9	10	14
Out	5	7	8	

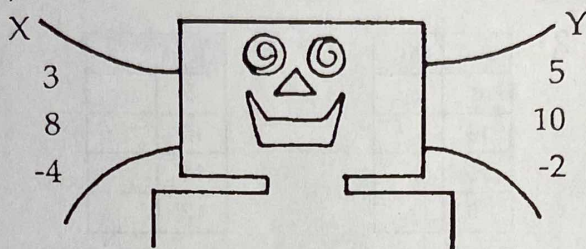
Rule: _____

NAME _____

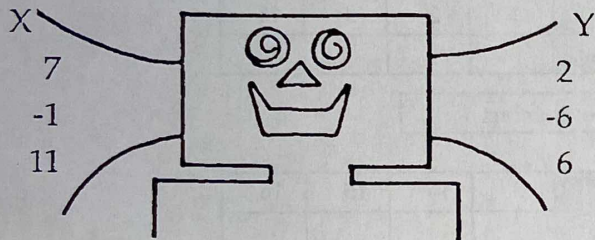
Input-Output Machine

Our input-output machine takes a number $[x]$, operates on the number, and changes it to a new number $[y]$. Below are some input-output machines, the input $[x]$, and the output $[y]$. Can you figure out the rule for what the machine did to the input?

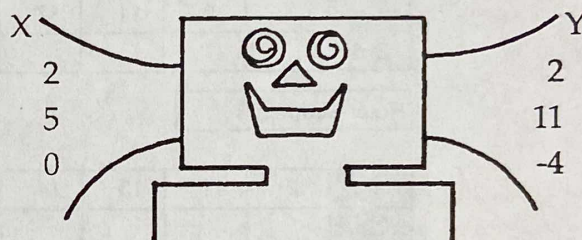
Example:



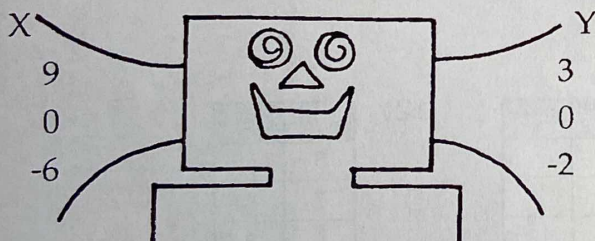
1.



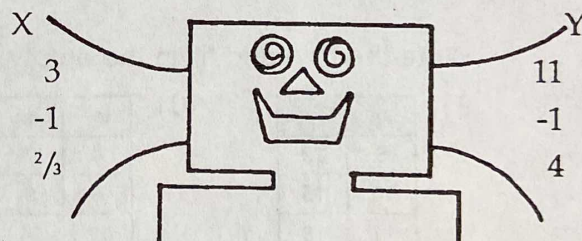
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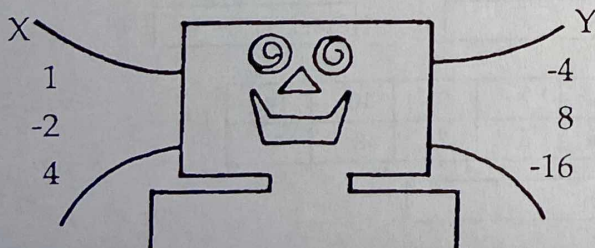
2.



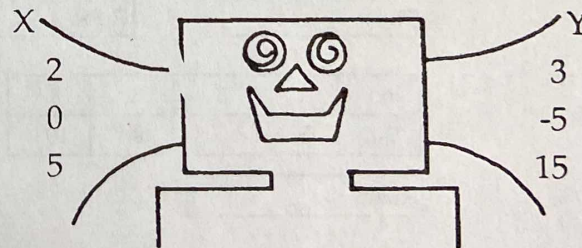
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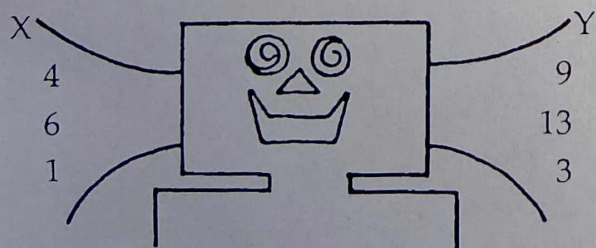
3.



7.



4.



8.

