Name:	
Class/Block:	Date:

Exploration: Are They Linear? (1)

1. Look at the ordered pairs in the tables provided. Predict whether the table represents a linear function. Record your predictions in the table below.

a mear function. Record your predictions in the table below.		
Table	Table Record your prediction and explain why you think this is true.	
x y		
1 4		
4 6		
5 8		
10 10		
x y		
1 2		
2 4		
3 7		
4 11		
x y		
4 9		
5 11		
6 13		
7 15		
ху		
2 5		
10 13		
1 4		
4 7		
	1	

2. In the applet, click on the "Plot pt" check box beside a point.

x y	x y	ху	x y
1 4 📃 Plot pt	1 2 📄 Plot pt	4 9 📄 Plot pt	2 5 📃 Plot pt
4 6 📃 Plot pt	2 4 9 Plot pt	5 11 📄 Plot pt	10 13 📃 Plot pt
5 8 🖃 Plot pt	3 7 📄 Plot pt	6 13 📄 Plot pt	1 4 📃 Plot pt
10 10 📃 Plot pt	4 11 🗎 Plot pt	7 15 🗎 Plot pt	4 7 📃 Plot pt
Check line	Check line	Check line	Check line

Describe what happens:



Name:		
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3. For each table:

- a. Plot all four points for a given table. Look at the points.
- b. Click on the "Check line" checkbox.
- c. Look at the line to see if it goes through all the points for the table.
- d. Record you observations in the table below.

Table		Record your observations. Explain whether you would change your prediction based on your observations.	
x	У		
1	4		
4	6		
5	8		
10	10		
x	Y		
1	2		
2	4		
3	7		
4	11		
x	У		
4	9		
5	11		
6	13		
7	15		
X	У		
2	<u>у</u> 5		
10	13		
1	4		
4	7		

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