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.

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	
x | y 2 | 5 10 | 13 1 | 4 4 | 7	

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

x	y		x	y		x	y		x	y	
1	4	Plot pt	1	2	Plot pt	4	9	Plot pt	2	5	Plot pt
4	6	Plot pt	2	4	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: _____
Class/Block: _____ Date: _____

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 | 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	
x | y 2 | 5 10 | 13 1 | 4 4 | 7	