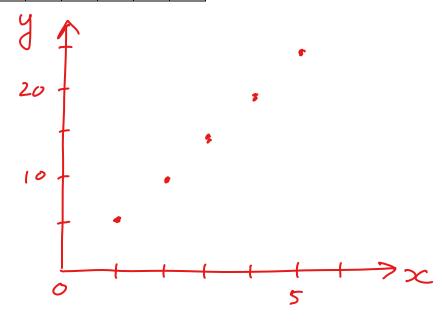
Practice (6.2A)

1. a) Graph the ordered pairs in the table of values.

X	0	1	2	3	4	5
У	0	5	10	15	20	25



b) What is the difference in value for consecutive *x*-values? What is the difference in value for consecutive *y*-values?

c) What is an expression for y in terms of x?

2. For each table of values, tell whether the relationship is linear. Explain how you know.

a)

	41	1	, ,	•	•	
		~~	75	3	72	
S	2	თ	4	5	6	
t	5	9	15	19	25	
+4 +6 +5 +6						

No. The change in y compared to the change in sc is

not constant.

I _	•
n	- 1
u	- 4
_	

	h	i	
-3 (7	-6)+3
2	4	-3	W 2
-3(1	0	2+3

$$\frac{3}{-3} = -1$$

$$\frac{3}{-3} = -1$$

$$\frac{3}{-3} = -1$$

$$\frac{3}{-3} = -1$$

3. For the following table of values, graph the ordered pairs. Does the relationship appear to be linear? Explain.

+2, +1, +3,
u 0 2 3 6
v 3 9 12 21
V +6 +3 +9
24
18 –
4
12 ~
-
6 –
7 2 4 6 8

Yes. The points are on the same line

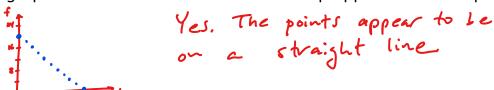
Also, change in y is constant

$$\frac{6}{2} = \frac{3}{1} = \frac{9}{3} = 3$$

- 4. Mahesha has \$100 altogether, in \$10 bills and \$5 bills.
 - **a)** Fill in the table of values to show at least five possible combinations of \$10 bills and \$5 bills that Mahesha may have. Add columns to the table if necessary.

Number of \$10 Bills 6				3	<i> </i>
Number of \$5 Bills f	20	18	16	14	12

b) Draw a graph of the data. Does the relationship appear linear? Explain.



c) Is it possible for Mahesha to have 19 \$5 bills? Explain.