LINEAR FUNCTIONS HOMEWORK

Decide whether the equation is linear or nonlinear, and explain how you know.

1)
$$2a + 3b = 12$$

2)
$$y = \sqrt{x} - 3$$

3)
$$y = \frac{x}{2} + 6$$

4)
$$y = \frac{4}{x}$$

5)
$$a = \pi r^2$$

Which table represents a relation that is not a function?

Input	Output
1	1
2	1
3	1
4	1
	1 2 3 4

Input	Output
-1	-7
-2	11
-3	13
-4	105

Input	Output
2	0
4	1
6	2
8	0

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1	nput	Output
	3	0
	5	2
	7	1
	3	-4

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The table below shows the price for the number of copies made at a printing store.

Number of Copies	25	50	100	200
Cost	\$1.25	\$2.50	\$5.00	\$10.00

Which statement is true?

- A. The relation is a function with a constant change.
- B. The relation is a function, but the change is not constant.
- C. The domain is the number of copies and the range is the cost.
- D. The relation is not a function.

Graph the data in the table. Decide whether the graph is linear or nonlinear.

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x	0	1	2	3
у	4	8	12	16

X	1	2	3	4
у	1	2	6	24

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х	6	5	4	3
у	21	15	10	6

6.

X	-1	0	1	2
У	-7	-3	1	5