4-2 Patterns and Linear Functions

Use the table at the right to answer questions 1-4:

1. Is the relationship linear? Explain how you know.

Yes. Everytime x goes up by 1, y goes up by 2.

	х	у	
410	0	-3	5+2
\ \	1	∌1	
+1	2	1	7+1
+12	3	3	+2 0
41	4	5	147

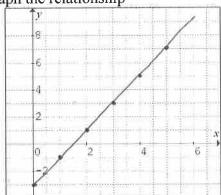
2. Express the relationship using words.

No able the k number and subtract 3 to get y.

3. Express the relationship using an equation.

y = 2x - 3

4. Graph the relationship



5. Determine whether the set of order pairs shown represents a linear relationship. Explain how you know. {(0, -3), (1, 2), (2, 7), (4, 17), (6, 27)}

Yes. Every time is increased by 1, y increases by 5. (So when & increases by 2, y increases by 10.)