

6.5 Key Concepts 1 First Differences Worked Example

Example: Determine whether the table shown may be properly used to look for a pattern in the first differences.

x	y
-2	-2
0	1
2	4
4	7

Solution: The value of x increases by a constant value of 2. Therefore, this table may be properly used to look for a pattern in the first differences.

Practice:

1. Determine whether the table shown may be properly used to look for a pattern in the first differences.

x	y
-2	-4
0	-1
1	0
2	1

2. Determine whether the table shown may be properly used to look for a pattern in the first differences.

x	y
1	1
2	5
3	9
4	13

Answers: 1. No. 2. Yes.