Review for Quiz Unit 5

- 1. A recovering heart attack patient is told to get on a regular walking program. The patient is told to walk a distance of 5 km the first week, 8 km the second week, 11 km the third week and so on for a period of 10 weeks. At that point the patient is to maintain the distance walked during the 10th week.
 - a. Write an explicit formula for this arithmetic sequence.

b. How far will the patient walk during the 10th week?

- 2. Consider a sequence that follows -19, -16, -13, -10,
 - **a.** Write the recursive formula.

b. Write the explicit formula.

c. Find the 60^{th} term.

3. Which linear equation represents the data in the accompanying table?

1)	d = 1.50c	С	d
2)	d = 1.50c + 20.00	0	20.00
3)	d = 20.00c + 1.50	1	21.50
4)	d = 21.50c	2	23.00
		3	24.50

4. If the pattern below continues, which equation(s) is a recursive formula that represents the number of squares in this sequence?



- 5. For the sequence $-27, -12, 3, 18, \ldots$, the expression that defines the *n*th term where $a_1 = -27$ is
- 1) 15 27n
- 2) 15 27(n-1)
- 3) -27 + 15n
- 4) -27 + 15(n-1)

6. Which function defines the sequence $-6, -10, -14, -18, \dots$, where f(6) = -26?

- 1) f(x) = -4x 2
- 2) f(x) = 4x 2
- 3) f(x) = -x + 32
- 4) f(x) = x 26