

Example: Determine the general rule (T_n) for this number pattern.

Now let's determine the general term of the linear pattern 5; 7; 9; 11; using these findings.

$$b = 2$$

$$b + c = 5$$

(first term)

$$\therefore 2 + c = 5$$

(substitute $b = 2$ into the equation $b + c = 5$)

$$\therefore c = 3$$

$$T_n = bn + c$$

$$\therefore T_n = 2n + 3$$



Answer the following questions:

List the following three numbers in each pattern

1.1 $-4, -6, -8, -10, \dots$

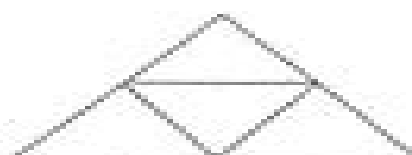
1.2 $7, 14, 21, 28, \dots$

1.3 $5, 8, 11, 14, \dots$

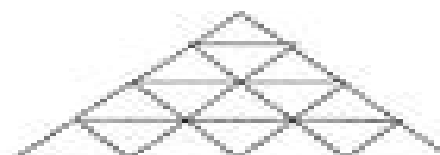
1.4 $8, 5, 2, -1, \dots$



Pattern 1



Pattern 2



Pattern 3

2.1 How many small triangles will there be in pattern 4?

2.2 Determine the general rule (T_n) for this number pattern.

2.3 How many small triangles will there be in pattern 13?

Consider the following number pattern:

$$2; \text{18}; 7; \text{12}; 12; \text{6}; 17; \dots$$

3.1 Write down the following two terms of this pattern.

3.2 Determine the n th term for the terms in the uneven positions.

3.3 Which term will be the first negative term of this pattern?

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