6

Write the explicit and recursive formulas:

-5, -9, -13, -17, …

T**n= -4n-1**

**Tn = tn-1 – 4; t1 = -5**

Write the explicit and recursive formulas:

3, -15, 45, …

Tn = 3(-5)n-1

Tn = -5tn-1; T1 = 3

Find the 1st three terms of the sequence:

Tn = 4 – 7n

-3, -10, -17

Find the 1st three terms of the sequence:

Tn = 7an-1; a1= -3

-3, -21, -147

Given the sequence:

Tn = -3(2)n, find a1.

-6

Given the sequence:

7, 3, -1 … find a42

-157

Given the sequence:

12, 17, 22, 27… what term is 82?

15

Arithmetic Sequence where

t3 = 2 t22 = 59 Find a1 and  d

a1 = -4 and d = 3

Geometric Sequence where

t1 = 3 t6 = 96 Find r

-2

$$\sum\_{n=1}^{5}3+4n$$

75

$$\sum\_{n=1}^{6}-2(3)^{n}$$

-2184

$$\sum\_{n=1}^{\infty }2\left(\frac{-3}{4}\right)^{n-1}$$

$$\frac{8}{7}$$

Find the sum: 1 + 4 + 7 + … 34

210

Find the sum: 3 + 6 + 12 + …

Divergent No Sum

In an arithmetic series, a1= -4 and a12= 51. Find the sum of the 1st 12 terms.

282

Find the common ratio if a1 = 4 and S = 8 for a convergent geometric series.

½

Find the sum of the 1st 25 terms of the series: 19 + 15 + 11 + 7 …

-725

Find the number of terms in the geometric series with a1 = -5, r = 3 and Sn = -1215