

Determine the sum of the arithmetic series.

$$1. 3 + 8 + 11 + \dots + 73$$

$$a_1 = 3 \quad d = 5$$

$$a_n = 73$$

$$a_n = a_1 + (n-1)d$$

$$73 = 3 + (n-1)5$$

$$73 = 3 + 5n - 5$$

$$73 = 5n - 2$$

$$\frac{75}{5} = \frac{5n}{5} \quad (n=15)$$

$$d = a_n - a_{n-1}$$

$$S_n = \frac{n}{2}(a_1 + a_n)$$

$$a_n = a_1 + (n-1)d$$

$$S_n = \frac{n[2a_1 + (n-1)d]}{2}$$

Arithmetic Series Problems And Answers

Dr. Ram Dev Sharma, ,Er. Meera Goyal

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