

If  $\{a_n\}$  is an arithmetic sequence, the sum,  $S_n$ , of the first  $n$  terms is...

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where  $d$  is the common difference

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Find the sum of the first 12 terms of the following sequence...

$$\{a_n\} = 4n + 3$$

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Find the following **sums**...

$$-1 + 1 + 3 + 5 + \dots + 25$$

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

Find the following sums...

$$4 + 7 + 10 + 13 + \dots + 67$$

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

Find the following sums...

$$-4 + 0 + 4 + 8 + \dots + 4n - 8$$

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

Find the following sums...

$$8 + 14 + 20 + 26 + \dots + 6n + 2$$

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