

1. Find the sum of the first 20 terms of this series: $-13, -5, 3, 11, \dots$

2. Find the sum of the first 25 terms of this series: $10, 7, 4, 1, \dots$

Find the sum of the terms in each finite series.

3. $-16, -22, -28, -34, \dots, -148$

4. $37, 40, 43, 46, \dots, 127$

5. Use the given information to find the sum of this arithmetic series.

$a_4 = 100$ $a_9 = 195$ Last term: $a_n = 518$

6. Use the given information to find the number of terms in the arithmetic series.

$a_1 = 17$ Last term: $a_n = 289$ Sum of the series: $S_n = 5355$

7. Use the given information to find the common difference of this arithmetic series.

$a_1 = -31$ Last term: $a_n = -123$ Sum of the series: $S_n = -1848$

8. Use the given information to find the first term in this arithmetic series.

$S_{10} = 460$ $d = 6$