UNIT 8: IDENTIFY AND WORK WITH SIMPLE ARITHMETIC SERIES

Exercise 8.1



Work on your own. Do the exercises as classwork or homework.

- An arithmetic sequence has a first term of 10, and a common difference of 4. Calculate the 18th term.
- 2. An arithmetic sequence has 280 terms. The first term is 4 and the last term is 841. Calculate the common difference the series.
- 3. An arithmetic series starts 7; 13; 19 and has 10 terms.
 - a. Find the common difference.
 - b. Find the last term
- The first term of an arithmetic sequence is 4 and the common difference is 5. Find the term number 10.
- 5. An arithmetic sequence has a common difference of 4, and the 6th term is 28. Find the first term
- 6. An arithmetic sequence has a first term of 2, and the common difference is 3.
 - a. Find the term number 17
 - b. The last term is 86. How many terms are there in the sequence?
- An arithmetic sequence has a first term of 2, a common difference of 6 and it has 29 terms.
 Calculate the last term of the series.
- An arithmetic sequence has 170 terms. The first term is 5 and the last term is 1357. Calculate the common difference of the series.
- 9. An arithmetic sequence starts 2,7,12 and has 210 terms.
 - a. Find the common difference
 - b. Find the last term.
- 10. The first term of an arithmetic sequence is 1 and the last of 15 terms is 57. Find the common difference.
- 11. An arithmetic sequence has a common difference of 2 and the first term is 18. Find the 12th term.
- 12. An arithmetic sequence has a first term of 2, and the common difference is 4.
 - a. Find the term number 14
 - b. Find the sum of the 14th plus the 16th terms