



Problem 1 – Scatter Plots

For each sequence, write the common ratio and give a description, or sketch, of the scatter plot.

- Sequence B
- Sequence D
- Sequence F

- Sequence H
- Sequence J

- Make a conjecture about the scatter plot of a geometric sequence, the common ratio, and/or the sign of the first term of the sequence.

Problem 2 – Explicit Formulas

- Find the 16th term of the geometric sequence with a first term of 2 and common ratio of 1.8.

- Determine a general explicit rule for finding any term of a geometric sequence.

Problem 3 – An Interesting Observation

- Work through pages 3.1 and 3.2 and make a conjecture about your findings.

Problem 4 – Sums of Series

- Find the sum of the six terms of the sequence on page 4.2.
- Advance to page 4.4 to find the sum of the first 10 terms in the sequence shown on page 4.3.

Extension

- Use the *Scratchpad* to show that each method described on page 5.1 gives the same sum found on page 4.4.

