Practice questions

Show your working. Try these without looking at the answers.

1. Find the 10th term of the arithmetic sequence 3, 7, 11, … .

2. Find the sum of the first 5 terms of 2, 6, 18, … .

3. Find the sum to infinity of 8 + 4 + 2 + … .

4. Expand $(1 + 2x)^3$.