1. **Find the next two term for each quadratic sequence.**

    a. 4, 6, 10, 16, 24, _____, _____

    b. 2, 5, 10, 17, 26, _____, _____

    c. 3, 9, 19, 33, 51, _____, _____

    d. 50, 48, 44, 38, 30, _____, _____

2. List the first 5 terms of the sequences with n^{th} term:
    a. $n^2 + 4$

    b. $n^2 - 2$

    c. $2n^2$

    d. $\frac{1}{4}n^2$

    e. $\frac{3}{5}n^2$

3. Find the nth term of each of these sequences.

(a) 4, 7, 12, 19, 28, 39, 52 …   (b) 51, 54, 59, 66, 75, 86, 99 …   (c) −5, −2, 3, 10, 19, 30…

4. A sequence has an nth term of $n^2 + 2n - 5$ Work out which term in the sequence has a value of 58

5. A sequence has an nth term of $n^2 - 6n + 7$ Work out which term in the sequence has a value of 23.

6. A sequence has an nth term of $n^2 + n - 20$ Work out which term in the sequence has a value of 52.