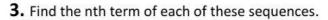
Quadratic Sequence



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



(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.

