

# Nth Term of Quadratic Sequences

Increasingly  
Difficult  
Exercises

## Answer Key

- |    |                                   |    |                 |    |                                 |
|----|-----------------------------------|----|-----------------|----|---------------------------------|
| a) | $n^2$                             | b) | $n^2 + 2$       | c) | $n^2 - 5$                       |
| d) | $2n^2$                            | e) | $5n^2$          | f) | $(n + 1)^2$<br>$= n^2 + 2n + 1$ |
| g) | $(n + 6)^2$<br>$= n^2 + 12n + 36$ | h) | $n^2 + n$       | i) | $n^2 - 3n$                      |
| j) | $n^2 + 2n + 7$                    | k) | $2n^2 + 3n + 1$ | l) | $n^3 + 2n^2 + 5$                |

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| j) | $n^2 + 2n + 7$                    | k) | $2n^2 + 3n + 1$ | l) | $n^3 + 2n^2 + 5$                |