



Name: _____



Find the n^{th} term of these quadratic sequences, leaving in the form of :

a) 3, 6, 11, 18, 27

$$n^2 + 2$$

e) 4, 9, 16, 25, 36

$$n^2 + 2n + 1$$

i) 10, 20, 34, 52, 72

$$2n^2 + 4n + 4$$

b) -5, -2, 3, 10, 25

$$n^2 - 6$$

f) 8, 14, 22, 32, 44

$$n^2 + 3n + 4$$

j) -1, 9, 27, 50, 79

$$4n^2 - 2n - 3$$

c) 4, 13, 28, 49, 76

$$3n^2 + 1$$

g) 6, 12, 22, 36, 54

$$2n^2 + 4$$

k) -7, 6, 27, 56, 93

$$4n^2 + n - 12$$

d) 9, 12, 17, 24, 33


$$n^2 + 8$$

h) 3, 11, 21, 33, 47

$$n^2 + 5n - 3$$

l) 20, 16, 8, -4, -20

$$2n^2 + 2n + 20$$

 Exam question:

Work out an expression for the n^{th} term of the quadratic sequence that begins:
5, 11, 19, 29, 41..

$$n^2 + 3n + 1$$

