

Quadratic Sequences

For each sequence below, find the closed form (or nth term) and the 12th term in the sequence.

1 -3 14 39 72 113 162 219 284

2 5 25 55 95 145 205 275 355

3 4 21 46 79 120 169 226 291

4 -2 22 60 112 178 258 352 460

5 60 73 90 111 136 165 198 235

6 -96 -70 -34 12 68 134 210 296

7 41 39 31 17 -3 -29 -61 -99

8 65.8 53.2 26.2 -15.2 -71 -141.2 -225.8 -324.8

9 -0.5 -36 -99.5 -191 -310.5 -458 -633.5 -837

10 8 1 -14 -37 -68 -107 -154 -209