Examples - sequence characterization

For each of these sequences, give a characterization of the sequence of the type indicated.

1. $0, 3, 8, 15, 24, 35,$____ (Closed formula)

2. $1, 4, 7, 10, 13, 16,$____ (Closed formula)

3. $1, 4, 25, 676, 458329,$____ (Recursive formula)

4. $1, 2, 5, 11, 26, 59, 137,$____ (Recursive formula)

5. $1, 2, 4, 8, 16, 32,$____ (Closed formula)

6. $1, 2, 4, 6, 10, 12, 16, 18, 22, 28,$____ (Recognizable set of integers)

7. $4, 5, 8, 10, 12, 15, 16, 20, 24, 25, 28, 30,$____ (Recognizable set of integers)