**Different Types of Sequence**

Each of these sequences is arithmetic (linear). Find the next three terms.

(a) $11, 13, 15, 17,…$

(b) $6, 11, 16, 21,…$

(c) $4.6, 4.9, 5.2, 5.5,..$

(d) $23, 19, 15, 11,…$

(e) $9, 8.5, 8, 7.5,…$

(f) $-3, -9, -15, -21,…$

Each of these sequences is geometric. Find the next three terms.

(a) $2, 4, 8, 16,…$

(b) $6, 18, 54, 162,…$

(c) $10, 50, 250, 1250,…$

(d) $160, 80, 40, 20,…$

Each of these sequence is quadratic. Find the next three terms.

(a) $3, 4, 6, 9,…$

(b) $6, 8, 12, 18,…$

(c) $1, 7, 14, 22,…$

(d) $100, 97, 92, 85,…$

For each of these sequences:

(i) decide whether they are arithmetic (linear), geometric or quadratic

(ii) find the next two terms

(a) $3, 6, 12, 24,…$

(b) $7, 14, 21, 28,…$

(c) $10, 7, 4, 1,…$

(d) $8, 9, 11, 14,…$

(e) $2, 5, 12.5, 31.25,…$

(f) $5, 7, 11, 17,…$

A sequence starts $2, 4,..$. Write down the next three terms in the sequence if it is (i) arithmetic, (ii) geometric and (iii) quadratic.

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