

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

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- (b) 6, 18, 54, 162, ...
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Each of these sequence is quadratic. Find the next three terms.

- (a) 3, 4, 6, 9, ...
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