

Patterns and Sequences

For each of the sequences given, decide whether it is special, arithmetic, quadratic or geometric, then write down the next two terms.

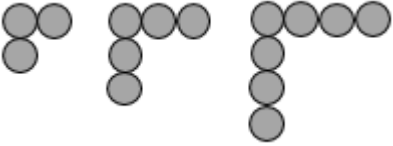

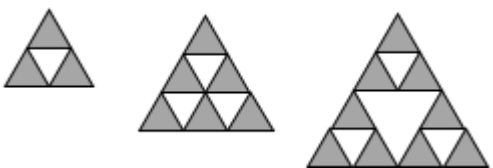
- (a) 1, 1, 2, 3, 5, 8,...
- (b) 4, 7, 10, 13,...
- (c) 2, 4, 8, 16,...
- (d) 10, 8, 6, 4, 2,...
- (e) 1, 3, 6, 10, 15,...
- (f) 160, 80, 40, 20,...
- (g) 2, 5, 10, 17,...
- (h) 1, 3, 5, 7, 9,...

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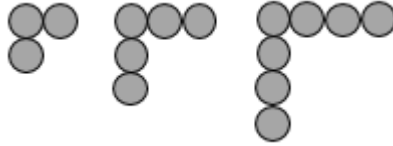

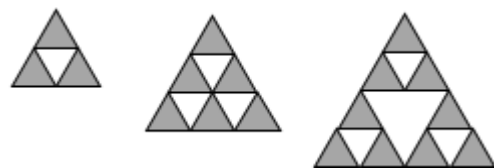
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For each of these sequences, draw the next two patterns in the sequence.

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- (b) 
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The first three terms of a Fibonacci sequence are:

$$a \quad b \quad a + b$$

Show that the 6th term is $3a + 5b$

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