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### Sequences and nth terms

1. Write the first 6 terms of each sequence.

- |                  |                     |                        |
|------------------|---------------------|------------------------|
| a. $2n + 1$      | b. $5n$             | c. $2n - 2$            |
| d. $3n + 4$      | e. $3n - 1$         | f. $4n - 3$            |
| g. $2n + 5$      | h. $3n + 2$         | i. $n - 3$             |
| j. $3n - 5$      | k. $10 - n$         | l. $20 - 3n$           |
| m. $30 - 2n$     | n. $n(n + 1)$       | o. $(n - 1)(n + 1)$    |
| p. $n^2$         | q. $2n^2$           | r. $(2n)^2$            |
| s. $\frac{1}{n}$ | t. $\frac{n}{2n+1}$ | u. $\frac{2n-1}{3n+2}$ |

2. For each of the sequences in question 1 find the value of term 10 and term 50. Part (a) has been done as an example.

- a.  $2n + 1$   
 Term 10 =  $20 + 1 = 21$   
 Term 50 =  $100 + 1 = 101$

3. Find the nth term for each of these sequences, then find the value of term 20.

- |  |  |
|--|--|
| a. 1, 3, 5, 7, 9, 11   | b. 3, 6, 9, 12, 15, 18   |
| c. 1, 4, 7, 10, 13, 16   | d. 7, 11, 15, 19, 23, 27   |
| e. 4, 7, 10, 13, 16, 19  | f. 4, 14, 24, 34, 44, 54   |
| g. 17, 19, 21, 23, 25, 27  | h. 2, 6, 10, 14, 18, 22  |
| i. 8, 10, 12, 14, 16, 18   | j. 3, 4, 5, 6, 7, 8  |
| k. -4, -1, 2, 5, 8, 11   | l. 20, 18, 16, 14, 12, 10  |
| m. 7, 4, 1, -2, -5, -8   | n. 25, 21, 17, 13, 9, 5  |
| o. $\frac{1}{2}, \frac{2}{3}, \frac{3}{4}, \frac{4}{5}, \frac{5}{6}$ | p. $\frac{2}{3}, \frac{4}{5}, \frac{6}{7}, \frac{8}{9}, \frac{10}{11}$ |

4. You are given the term to term rule for each sequence and the value of the third term. Work out the first term.

- |  |                 |
|--|-----------------|
| a. Multiply the previous term by 2 then subtract 3 | Third term = 27 |
| b. Multiply the previous term by 2 then add 4      | Third term = 32 |
| c. Multiply the previous term by 3 then subtract 1 | Third term = 59 |
| d. Add 4 to the previous term then multiply by 2   | Third term = 36 |

5. Find which term in the sequence  $3n + 1$  has the value 76.  
 b. Find which term in the sequence  $2n - 5$  has the value 31.  
 c. Find which term in the sequence  $4n - 2$  has the value 82.

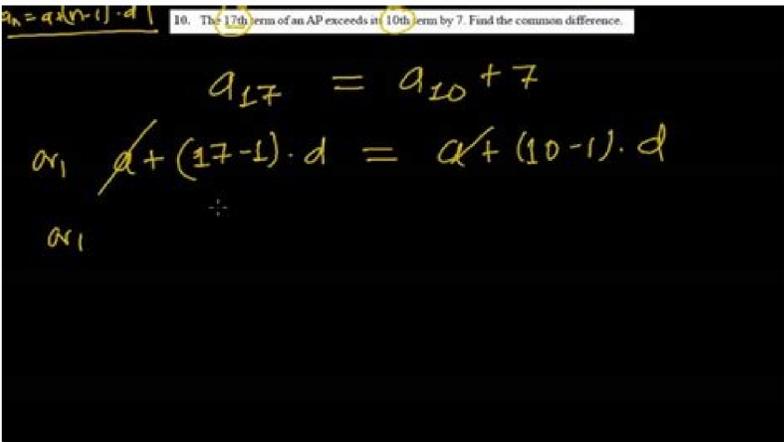
6. a. Is 37 a term in the sequence  $4n - 17$ ?  
 b. Is 71 a term in the sequence  $2n + 32$ ?  
 c. Is 60 a term in the sequence  $5n + 42$ ?  
 d. Is 40 a term in the sequence  $3n - 52$ ?  
 e. Which is the first term greater than 100 in the sequence  $6n - 52$ ?

Find the nth term rule for each of the following linear sequences.

Give your answers in the form  $an + b$ .

- |                             |                                 |
|-----------------------------|---------------------------------|
| 1. 1, 3, 5, 7, 9, ...       | nth term = <input type="text"/> |
| 2. 5, 8, 11, 14, 17, ...    | nth term = <input type="text"/> |
| 3. 1, 3, 5, 7, 9, ...       | nth term = <input type="text"/> |
| 4. 8, 12, 16, 20, 24, ...   | nth term = <input type="text"/> |
| 5. 8, 10, 12, 14, 16, ...   | nth term = <input type="text"/> |
| 6. 14, 15, 16, 17, 18, ...  | nth term = <input type="text"/> |
| 7. 2, 3, 4, 5, 6, ...       | nth term = <input type="text"/> |
| 8. 16, 17, 18, 19, 20, ...  | nth term = <input type="text"/> |
| 9. -6, -5, -4, -3, -2, ...  | nth term = <input type="text"/> |
| 10. 20, 21, 22, 23, 24, ... | nth term = <input type="text"/> |

**Total = ? / 10**



## Exam-style question 1

The first few terms of a quadratic sequence are:

3, 9, 17, 27, 39, ...

- (a) Show that the  $n$ th term of this sequence is  $n^2 + 3n - 1$ .  
 (b) What is the 30th term of this sequence?  
 (c) The  $k$ th term has a value of 87. Find the value of  $k$ .

How to find the nth term sequence. How to find the nth term of a sequence example. How to get nth term in sequence. What is the nth sequence. Find the nth term of an arithmetic and geometric sequence worksheet.

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