

- 1) What is the term to term rule for each sequence, below?
  - a) 1, 4, 16, 64, 256
  - b) 6, 12, 24, 48, 96
  - c) 80, 40, 20, 10, 5
  - d) 48, 12, 3, 0.75, 0.1875
  
- 2)
  - a) What is the special name for this sequence?  
1, 4, 9, 16, 25
  - b) What would be the 10th term of the sequence?
  - c) What is the  $n$ th term of the sequence?
  
- 3) By comparing the following sequences with the sequence of square numbers, find the  $n$ th term for each one.
  - a) 4, 7, 12, 19, 28
  - b) -1, 2, 7, 14, 23
  - c) 3, 12, 27, 48, 75
  
- 4)
  - a) What is the special name for this sequence?  
1, 3, 6, 10, 15
  - b) What would be the 8th term of the sequence?
  - c) What is the  $n$ th term of the sequence?
  - d) Use the  $n$ th term to work out the 21st term of the sequence.