

Worksheet 2015-8EB-00001(1)

(1) Complete the next 5 terms in each of the following sequences:

(a) $-11 ; -13 ; -15 ;$ _____

(b) $3 ; -6 ; 12 ; -24 ; 48 ;$ _____

(c) $2 ; 6 ; 12 ; 20 ; 30 ;$ _____

(d) $7 ; -7 ; 7 ; -7 ;$ _____

(e) $15 ; 27 ; 39 ; 51 ; 63 ;$ _____

(2) Consider the following sequence: $1 ; 4 ; 7 ; 10 ; \dots$

(a) Complete the next three terms in the sequences.

(b) Describe the pattern of the sequence in words.

(c) Write a general rule to describe the pattern in the sequence.

(d) What will the 100th term in the sequence be?

(3) Write the first 5 terms which is described in each of the following sentences:

(a) The first term of the sequence is 6. Each consecutive term is 4 less than the previous term.

(b) The first term is -5,7. Add 2,1 each time to obtain the next term.

(c) The first term is 5. Multiply with -2 to obtain the following term.
