

Arithmetic Sequences

a) Write a recursive rule for the sequence

b) Write an explicit rule for the sequence

1) 37, 67, 97, 127, ...

2) 11, 9, 7, 5, ...

3) 22, 52, 82, 112, ...

4) 40, 70, 100, 130, ...

5) 39, 19, -1, -21, ...

6) 36, 34, 32, 30, ...

Given the arithmetic sequence, determine the value of the term given

7) 30, 26, 22, 18, ...

Find a_{33}

8) 24, 21, 18, 15, ...

Find a_{28}

9) $-22, -15, -8, -1, \dots$
Find a_{28}

10) $11, -189, -389, -589, \dots$
Find a_{38}

11) $-20, -10, 0, 10, \dots$
Find a_{34}

12) $-30, -24, -18, -12, \dots$
Find a_{30}

Define the following vocabulary terms

13) Recursive

14) Explicit

15) a_1

16) a_{n-1}

17) d

18) n