Determine if the sequence is arithmetic. If it is, find the common difference.

Find the first five terms. Then find the indicated term.

7)
$$a_n = -11 + 7n$$

Find a_{34}

9)
$$a_n = -7.1 - 2.1n$$

Find a_{27}

Given the arithmetic sequence, find the first five terms. Then find the equation of the sequence.

11)
$$a_1 = 28$$
, $d = 10$

13)
$$a_1 = -34$$
, $d = -10$

15)
$$a_{38} = -53.2$$
, $d = -1.1$

17)
$$a_{37} = 249$$
, $d = 8$

Evaluate the related series of each sequence.

Evaluate each arithmetic series described.

5)
$$\sum_{k=1}^{35} (5k-2)$$

10)
$$\sum_{n=1}^{45} (3n-9)$$

11)
$$a_1 = 42$$
, $a_n = 146$, $n = 14$

13)
$$a_1 = 2$$
, $a_n = 122$, $n = 13$

15)
$$20 + 27 + 34 + 41...$$
, $n = 16$

17)
$$7 + 9 + 11 + 13...$$
, $n = 10$

Determine the number of terms *n* in each arithmetic series.

19)
$$a_1 = 19$$
, $a_n = 96$, $S_n = 690$

25)
$$(-2) + (-12) + (-22) + (-32)...$$
, $S_n = -224$