

Name: _____

Exercise 7.1 (part 2)

1. Write the first four terms of the arithmetic sequence that has the values shown.

a) $t_1 = -18$ et $d = 7$

b) $t_1 = 21$ et $d = -12$

2. For each sequence, determines the terms indicated.

a) 12, 16, 20 ... ; t_{18} et t_{41}

b) 5, -1, -7 ... ; t_n et t_{30}

3. Determine the number of terms in the sequence.

a) 10, 15, 20, ..., 250

b) -11, -7, -3, ..., 153

4. The first two terms of the arithmetic sequence are 5 and -3.

a) Determine the 17th term of the sequence.

b) Determine which term has a value of -267.

6. The 3th term of the arithmetic sequence is 24 and the 9th term is 54. Determine:

a) d

b) t_1

c) t_n

7. The 2nd term of the arithmetic sequence is 12 and the 13th term is -21. Determine:

a) d

b) t_1

c) t_n

8. The 8th term of the arithmetic sequence is 5.3 and the 14th term is 8.3. Determine the value of the 5th term of the sequence.

9. The expressions $5x + 2$, $7x - 4$, and $10x + 6$ are consecutive terms of an arithmetic sequence. Determine the value of x and the value of the three terms.