

DO NOW

1) Given $t_1 = 8$ and $t_5 = 21$, find t_2, t_3, t_4 .

2) Find the 4th term of the arithmetic sequence in which $t_3 = -5$ and $t_6 = 16$.

3) Find the 12th and the 200th term of the arithmetic sequence in which $t_3 = 8$ and $t_7 = 20$.

Objective: Find the arithmetic means between two numbers

Arithmetic Means: The terms between any two non-consecutive terms of an arithmetic sequence

Examples:

a) 2, 4, 6, 8, 10

b) Find four arithmetic means between 10 and -30

Find the arithmetic means (missing terms) of each arithmetic sequence.

1) ..., 29, ____, -31, ...

2) ..., -20, ____, -40, ...

3) ..., 13, ____, 7, ...

4) ..., -23, ____, -3, ...

5) ..., 9, ____, 3, ...

6) ..., 36, ____, 56, ...

7) ..., -16.3, ____, -20.5, ...

8) ..., -30, ____, 30, ...

9) ..., $-\frac{4}{7}$, ____, $-\frac{68}{21}$, ...

10) ..., 32, ____, ____, ____, 68, ...

11) ..., $\frac{3}{5}$, ____, ____, ____, $\frac{29}{15}$, ...

12) ..., 10, ____, ____, ____, 130, ...

13) ..., -7.7, ____, ____, -16.4, ...

14) ..., 19, ____, ____, -71, ...

Homework p. 704 # 36, 39, 53, 63, 69, 72, 75