

## Arithmetic Sequences

$$\underline{t_n = t_1 + (n-1)d} \leftarrow \text{memorize}$$

**Ex 1** Find a formula for the  $n$ th term of the arithmetic sequence 5, 8, 11, 14, ...

**Ex 2** Find  $t_{23}$  for the arithmetic sequence in which  $t_2 = 4$  and  $t_5 = 22$ .

**Def**: The arithmetic means are simply the terms b/w two given terms of an arithmetic sequence.

ex: 10, 13, 16, 19, 22  
arithmetic means

**Ex 3** Insert 3 arithmetic means between 11, and 35.