

BE-1A | TUESDAY 5-15-07

① Find the EOL through
 $(2, -4), (-3, 1)$

② In the arithmetic sequence
 $6, 9, 12, \dots$

Ⓐ What is a_1 ?

Ⓑ What is d ?

Ⓒ What is the arithmetic sequence formula? (reference chapter 4-7)

Common Difference

$$a_n = a_1 + (n-1)d$$

↑ First term = term number 1
term number

$$6, 9, 12, \dots$$

$$a_1 = 6 \quad d = +3$$

$$\text{General: } a_n = a_1 + (n-1)d$$

$$\text{For this sequence: } a_n = 6 + (n-1)3$$

$$a_n = 6 + 3n - 3$$

$$\boxed{a_n = 3 + 3n}$$

Ex) Find 50th term $\Rightarrow n = 50$

$$a_{50} = 3 + 3(50)$$

$$a_{50} = 3 + 150$$

$$\boxed{a_{50} = 153}$$