

$$4 = 1 + 3$$

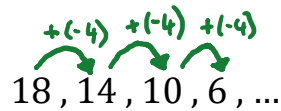
$$7 = 1 + 3 + 3 = 1 + 2 \times 3$$

$$10 = 1 + 3 + 3 + 3 = 1 + 3 \times 3$$

$$\text{10th term} = 1 + 9 \times 3$$

$$\text{100th term} = 1 + 99 \times 3$$

$$U_n = \text{nth term} = 1 + (n - 1) \times 3$$



$$14 = 18 + (-4)$$

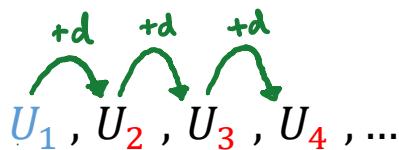
$$10 = 18 + (-4) + (-4) = 18 + 2 \times (-4)$$

$$6 = 18 + (-4) + (-4) + (-4) = 18 + 3 \times (-4)$$

$$\text{10th term} = 18 + 9 \times (-4)$$

$$\text{100th term} = 18 + 99 \times (-4)$$

$$U_n = \text{nth term} = 18 + (n - 1) \times (-4)$$



$$U_2 = U_1 + d$$

$$U_3 = U_1 + d + d = U_1 + 2d$$

$$U_4 = U_1 + 3d$$

$$U_n = U_1 + (n - 1)d$$