

Sol. Given $z(1-i) = z^2(1+i)$ (i)

$$\text{So } |z|(1-i) = |z|^2(1+i)$$

$$\Rightarrow |z| = |z|^2 \Rightarrow |z| = 0 \text{ or } |z| = 1$$

Let $\arg(z) = \theta$

So from (i) we get

$$2n\pi - \theta - \frac{\pi}{4} = 2\theta + \frac{\pi}{4}$$

$$\Rightarrow \theta = \frac{1}{3} \left(\frac{4n-1}{2} \right) \pi = \frac{(4n-1)\pi}{6}$$

So we will get 3 distinct values of θ . Hence there will be total 4 possible values of complex number z .

6. Let a_1, a_2, \dots, a_{100} be consecutive terms of an arithmetic progression with common difference d_1 , and let w_1, w_2, \dots, w_{100} be consecutive terms of another arithmetic progression with common difference d_2 , where $d_1 d_2 = 10$. For each $i = 1, 2, \dots, 100$, let R_i be a rectangle with length l_i , width w_i and area A_i . If $A_{51} - A_{50} = 1000$, then the value of $A_{100} - A_{50}$ is _____.

Answer (18900)

Sol. For A.P. a_1, a_2, \dots, a_{100}

Let $T_1 = a$ and common difference = d_1 and similarly for A.P. w_1, w_2, \dots, w_{100}

$T_1 = b$ and common difference = d_2

$$A_{51} - A_{50} = l_{51} w_{51} - l_{50} w_{50}$$

$$= (a + 50d_1)(b + 50d_2) - (a + 49d_1)(b + 49d_2)$$

$$= 50bd_1 + 50ad_2 + 2500d_1d_2 - 49ad_2 - 49bd_1 - 2401d_1d_2$$

$$= bd_1 + ad_2 + 99d_1d_2 = 1000$$

$$\therefore bd_1 + ad_2 = 10$$

$$\dots(i) \text{ (As } d_1 d_2 = 10)$$

$$\therefore A_{100} - A_{50} = l_{100} w_{100} - l_{50} w_{50}$$

$$= (a + 99d_1)(b + 99d_2) - (a + 49d_1)(b + 49d_2)$$

$$= 99bd_1 + 99ad_2 + 99^2d_1d_2 - 49bd_1 - 49ad_2 - 49^2d_1d_2$$

$$= 10(bd_1 + ad_2) + 1880d_1d_2$$

$$= 10(10) + 18800$$

$$= 18900$$

7. The number of 4-digit integers in the closed interval [2022, 4482] formed by using the digits 0, 2, 3, 4, 6, 7 is _____.

Answer (569)

Sol. Counting integers starting from 2

Case-I: if zero on 2nd place

$$\text{i.e., } 2 \ 0 \ 2 \ \begin{smallmatrix} \pm \\ 5 \end{smallmatrix} \rightarrow 5 \text{ cases}$$

$$\text{or } 2 \ 0 \ \begin{smallmatrix} \pm \\ 4 \ 6 \end{smallmatrix} \rightarrow 24 \text{ cases}$$

(Numbers except 0 or 2 in 3rd place)

Case-II: If non-zero number on 2nd place

$$\text{i.e., } 2 \ \begin{smallmatrix} \pm \\ 5 \end{smallmatrix} \ \begin{smallmatrix} \pm \\ 6 \end{smallmatrix} \ \begin{smallmatrix} \pm \\ 6 \end{smallmatrix} = 180 \text{ cases}$$

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