Mathematics (Basic) SET – 3 (Q.P. Code 430/2/3)

$$2a + 7 \cdot 3 = 25 \Rightarrow 2a + 21 = 25$$

 $\Rightarrow 2a = 25 - 21 \Rightarrow 2a = 4$
 $\Rightarrow a = 2$
So, the sum of its first 'n' terms = $\frac{n}{2}[2a + (n-1)d]$
= $\frac{n}{2}[2 \cdot 2 + (n-1)3]$
= $\frac{n}{2}[4 + 3n - 3]$
= $\frac{n}{2}[3n + 1]$

OR

33(B). If the sum of the first p terms of an A.P. is the same as the sum of its first q terms, (p ≠ q), then show that the sum of its first (p + q) terms is zero.

Explanation:

Given
$$S_p = S_q$$

$$\Rightarrow \frac{p}{2} (2a + (p - 1)d) = \frac{q}{2} (2a + (q - 1)d)$$

$$\Rightarrow p(2a + (p - 1)d) = q(2a + (q - 1)d)$$

$$\Rightarrow 2ap + p^2 d - pd = 2aq + q^2 d - qd$$

$$\Rightarrow 2a(p - q) + (p + q)(p - q)d - d(p - q) = 0$$

$$\Rightarrow (p - q)[2a + (p + q)d - d] = 0$$

$$\Rightarrow 2a + (p + q)d - d = 0$$

$$\Rightarrow 2a + ((p + q)d - d) = 0$$

$$\Rightarrow S_{p+q} = 0$$

34(a). From the top of a building 60~m high, the angles of depression of the top and bottom of a tower are observed to be 30° and 60° respectively. Find the height of the tower. Also, find the distance between the building and the tower. (Use $\sqrt{3}=1.732$)

Answer: 40 m and 34.641 m

Explanation:

Let AC be the tower and BE be the building. Let height of the tower be hm. It is given that the angles of depression of the top C and bottom A of the tower, observed from top of the building be 30° and 60° respectively.

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