Ex. 2 : *Find the equation of the sphere passing through the points* $(1, 0, -1)$, $(2, 1, 0)$, $(1, 1, -1)$ *and* $(1, 1, 1)$.

Sol. : Let (a, b, c) be the centre of the sphere.

All the points on sphere are equidistant from the centre.

$$\therefore \qquad (a-1)^2 + b^2 + (c+1)^2 = (a-2)^2 + (b-1)^2 + c^2$$
$$= (a-1)^2 + (b-1)^2 + (c+1)^2$$
$$= (a-1)^2 + (b-1)^2 + (c-1)^2 \qquad \ldots (1)$$

This gives us three equations as

$$2a + 2b + 2c - 3 = 0, \quad 2b - 1 = 0, \quad 2b + 4c - 1 = 0$$

Solving these equations, we get $a = 1$, $b = \frac{1}{2}$, $c = 0$

Radius of the sphere = Distance of centre (a, b, c) from any one point, say $(1, 1, -1)$ on the sphere

$$= \sqrt{(a-1)^2 + (b-1)^2 + (c+1)^2}$$
$$= \sqrt{\frac{1}{4} + 1} = \frac{\sqrt{5}}{2} \qquad \ldots (2)$$

From (1) and (2), equation of the sphere is,

$$(x-1)^2 + \left(y - \frac{1}{2}\right)^2 + z^2 = \frac{5}{4}$$

or

$$x^2 - 2x + 1 + y^2 - y + \frac{1}{4} + z^2 = \frac{5}{4}$$

or

$$\boxed{x^2 + y^2 + z^2 - 2x - y = 0}$$

which is the required equation of the sphere.

Ex. 3 : *Find the equation of the sphere through the points* $(4, -1, 2)$, $(0, -2, 3)$, $(1, 5, -1)$, $(2, 0, 1)$.

Sol. : We can solve this problem by the above method. However, another method of solving this problem is as follows :

Let the required equation of the sphere be

$$x^2 + y^2 + z^2 + 2ux + 2vy + 2wz + d = 0 \qquad \ldots (1)$$

$\because$ It passes through $(4, -1, 2)$,

$$\therefore \qquad 16 + 1 + 4 + 8u - 2v + 4w + d = 0$$

or

$$21 + 8u - 2v + 4w + d = 0 \qquad \ldots (2)$$

Similarly, as the sphere passes through $(0, -2, 3)$, $(1, 5, -1)$, $(2, 0, 1)$

$\therefore$

$$13 - 4v + 6w + d = 0 \qquad \ldots (3)$$

and

$$27 + 2u + 10v - 2w + d = 0 \qquad \ldots (4)$$

and

$$5 + 4u + 2w + d = 0 \qquad \ldots (5)$$

Subtracting (5) from each of (2), (3) and (4) (to eliminate d), we get

$$16 + 4u - 2v + 2w = 0 \quad \text{or} \quad 8 + 2u - v + w = 0 \qquad \ldots (6)$$
$$8 - 4u - 4v + 4w = 0 \quad \text{or} \quad 2 - u - v + w = 0 \qquad \ldots (7)$$
$$22 - 2u + 10v - 4w = 0 \quad \text{or} \quad 11 - u + 5v - 2w = 0 \qquad \ldots (8)$$

Solving (6), (7) and (8), we get $u = -2$, $v = -7$, $w = -11$. Also from (3), $d = 25$.

Substituting these values in (1), the required equation of the sphere is

$$\boxed{x^2 + y^2 + z^2 - 4x - 14y - 22z + 25 = 0}$$

Ex. 4 : *Find the equation of the sphere which passes through the points* $(1, -4, 3)$, $(1, -5, 2)$, $(1, -3, 0)$ *and whose centre lies on the plane* $x + y + z = 0$.   (May 2014)

Sol. : Let the equation of the sphere be

$$x^2 + y^2 + z^2 + 2ux + 2vy + 2wz + d = 0 \qquad \ldots (1)$$

$\because$ It passes through $(1, -4, 3)$, $(1, -5, 2)$, $(1, -3, 0)$

$\therefore \quad 1 + 16 + 9 + 2u - 8v + 6w + d = 0 \qquad$ or $\qquad 26 + 2u - 8v + 6w + d = 0 \qquad \ldots (2)$

and $1 + 25 + 4 + 2u - 10v + 4w + d = 0 \qquad$ or $\qquad 30 + 2u - 10v + 4w + d = 0 \qquad \ldots (3)$

Engineering Maths 2 Notes

William Allan

Engineering Maths 2 Notes:

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