

$$\begin{aligned} x^2 + y^2 + z^2 - x - y - z &= 0, \\ x + y + z &= 1 \end{aligned} \quad \dots(3)$$

As we have a right circular cylinder, so cylinder axis will be perpendicular to plane (2). So direction ratio of axis of cylinder are 1, 1, 1. Let $P(x_1, y_1, z_1)$ be any point on cylinder, then the direction ratio of generator through $P(x_1, y_1, z_1)$ is $(x - x_1, y - y_1, z - z_1)$. Then the equation of generator will be

$$x - x_1 = y - y_1 = z - z_1 \quad \dots(4)$$

If we equate above equation with λ , then any point on guiding circle will be $(\lambda + x_1, \lambda + y_1, \lambda + z_1)$

Since the generator meet the guiding circle, hence the above point must satisfy the eqn (3) of guiding circle. So

$$\begin{aligned} (\lambda + x_1)^2 + (\lambda + y_1)^2 + (\lambda + z_1)^2 - (\lambda + x_1) - (\lambda + y_1) - (\lambda + z_1) &= 0 \\ \text{or. } 3\lambda^2 + \lambda(2x_1 + 2y_1 + 2z_1 - 3) + (x_1^2 + y_1^2 + z_1^2 - x_1 - y_1 - z_1) &= 0 \dots(5) \end{aligned}$$

$$\text{and } (\lambda + x_1) + (\lambda + y_1) + (\lambda + z_1) = 1$$

$$\lambda = \frac{1}{3}(1 - x_1 - y_1 - z_1) \quad \dots(6)$$

Substitute value of λ from eqn(6) in eqn(5), we have

$$\begin{aligned} 3 \frac{(1 - x_1 - y_1 - z_1)^2}{9} + \frac{1}{3}(1 - x_1 - y_1 - z_1)(2x_1 + 2y_1 + 2z_1 - 3) \\ + (x_1^2 + y_1^2 + z_1^2 - x_1 - y_1 - z_1) = 0 \end{aligned}$$

$$\text{or, } x_1^2 + y_1^2 + z_1^2 - y_1 z_1 - z_1 x_1 - x_1 y_1 = 1$$

The required equation of cylinder is given by

$$x^2 + y^2 + z^2 - xz - zy - xy = 1$$

3. Find the equation to the right circular cone with vertex at the origin, axis the line $\frac{x}{2} = \frac{y}{-4} = \frac{z}{3}$ and which passes through the point (1,1,2).
RTU 2014, RU 2005

Ans :

Let ϕ be the semi vertical angle of the cone, O be the origin and $P(1,1,2)$ be the vertex of cone.

Since dr's of OP is 1,1,2, and dr's of the axis is 2, -4,3, so we can write

$$\cos \phi = \frac{2(1) - 4(1) + 3(2)}{\sqrt{1^2 + 1^2 + 2^2} \sqrt{2^2 + 4^2 + 3^2}} = \frac{4}{\sqrt{6} \sqrt{29}} \quad \dots(1)$$

Let (x, y, z) be any point on the surface of the right circular cone,

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