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Denoted by (ρ, ϕ, θ) , ρ is the distance from the origin, θ is the angle from the positive z axis and ϕ is the same as in cylindrical coordinates. Know the formulas $x = \rho \sin \theta \cos \phi$, $y = \rho \sin \theta \sin \phi$ and $z = \rho \cos \theta$. Also know that $\rho = \sqrt{x^2 + y^2 + z^2}$, $\phi = \tan^{-1}(y/x)$ and $\theta = \cos^{-1}(z / \sqrt{x^2 + y^2 + z^2}) = \cos^{-1}(z/\rho)$.

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For example if the x component is zero then $(2, -3, 5) \cdot (0, y, z) = -3y + 5z$ is solved when $y = 5k$ and $z = 3k$ for any scalar k. In other words, the vectors $a = (0, 5, 3)$ and $b = (3, 2, 0)$

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are orthogonal ton. For a point in the plane $2x - 3y + 5z = 30$, set any two of x , y , and z to zero. For example $(0, 0, 6)$ is in the plane.

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and multiply the components of vector with 8 and then add these resultants as follows. The vectors and can be plotted as follows.

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