748281-13.2-68E AID: 181155 | 27/12/2020

If the line with the vector parameterization  intersects with given sphere then point  will satisfy the equation of sphere.

Given that:

**Equation of sphere:**  

**Equation of line with vector parameterization:**



As  satisfy the equation of sphere.



The above equation can be further solved to



But, the above equation has no real roots. As, Discriminant is negative.

 .

So, there does not exists any real value of  which corresponds to point of intersection in 

