Circles - Class XI

Related Questions with Solutions

Questions

Quetion: 01

If $\left(a, \frac{1}{a}\right), \left(b, \frac{1}{b}\right), \left(c, \frac{1}{c}\right)$ & $\left(d, \frac{1}{d}\right)$ are four distinct points on a circle of radius 4 units then, abcd is equal to

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Solutions

Solution: 01

Let us assume that circle: $x^2 + y^2 = 16$

points are of form $\left(t, \frac{1}{t}\right) \Rightarrow t^2 + \frac{1}{t^2} = 16$ should satisfy

$\Rightarrow \quad t^4 - 16t^2 + 1 = 0$

$\therefore$ product of roots $= 1]$

Correct Options

Answer:01
Correct Answer: 1