Related Questions with Solutions

Questions

Ouetion: 01

The number of common tangents that can be drawn to the circle $x^2+y^2-4x-6y-3=0$ and $x^2+y^2+2x+2y+1=0$ is

B. 2

C. 3

D. 4

Solutions

Solution: 01

The two circles are $x^2+y^2-4x-6y-3=0$ and $x^2+y^2+2x+2y+1=0$ Centre: $C_1\equiv (2,3), C_2\equiv (-1,-1)$ radii : $r_1=4, r_2=1$ We have $C_1C_2=5=r_1+r_2$, therefore there are 3 common tangents to the given simples

Hence [C] is the correct answer.

Correct Options

Answer:01

Correct Options: C