

Circles - Class XI

Related Questions with Solutions

Questions

Question: 01

Find the number of common tangents to the circles $x^2 + y^2 = 1$ and $(x - 1)^2 + (y - 3)^2 = 4$

Solutions

Solution: 01

$$C_1 [0, 0]; \quad r_1 = 1$$

$$C_2 [1, 3]; \quad r_2 = 2$$

$$C_1 C_2 = \sqrt{1 + 9} = \sqrt{10} > r_1 + r_2$$

circles are separated

\Rightarrow 4 common tangents

Correct Options

Answer:01

Correct Answer: 4