

Circles - Class XI

Related Questions with Solutions

Questions

Question: 01

The area of the circle centred at $(-92, 103)$ and passing through $(-95, 99)$ is

- A. 3π
- B. 4π
- C. 25π
- D. 5π

Solutions

Solution: 01

Centre of circle is $[-92, 103]$. Let its radius be r .

\therefore Equation of circle is $(x + 92)^2 + (y - 103)^2 = r^2$

Since, it passes through $[-95, 99]$

$\therefore (-95 + 92)^2 + (99 - 103)^2 = r^2$

$\Rightarrow (-3)^2 + (-4)^2 = r^2 \Rightarrow r = 5$

\therefore Area of circle $= \pi r^2 = 25\pi$

Correct Options

Answer:01

Correct Options: C