

Circles - Class XI

Related Questions with Solutions

Questions

Question: 01

Equation of circle with centre $(-a, -b)$ and radius $\sqrt{a^2 - b^2}$ is

- A. $x^2 + y^2 + 2ax + 2by + 2b^2 = 0$
- B. $x^2 + y^2 - 2ax - 2by - 2b^2 = 0$
- C. $x^2 + y^2 - 2ax - 2by + 2b^2 = 0$
- D. $x^2 + y^2 - 2ax + 2by + 2a^2 = 0$

Solutions

Solution: 01

Equation of circle is

$$(x + a)^2 + (y + b)^2 = (\sqrt{a^2 - b^2})^2$$
$$\Rightarrow x^2 + y^2 + 2ax + 2by + 2b^2 = 0$$

Correct Options

Answer:01

Correct Options: A