Circles - Class XI

Related Questions with Solutions

Questions

Quetion: 01

If (- 4, 3) and (12, -1) are the ends of diameter of a circle which makes an intercept of 2 λ on the y-axis, then λ is A. $\sqrt{13}$ B. $4\sqrt{13}$ C. $3\sqrt{13}$ D. $2\sqrt{13}$

Solutions

Solution: 01

The circle is [x + 4] [x - 12] + [y - 3] [y + 1] = 0Also, $x = 0 \Rightarrow y^2 - 2y - 51 = 0$ y intercept $= 2\sqrt{(1)^2 - (-51)}$ $\left(\because y - intercept = 2\sqrt{f^2 - c}\right)$ $= 2\sqrt{52} = 4\sqrt{13}$ $\Rightarrow 2\lambda = 4\sqrt{13} \Rightarrow \lambda = 2\sqrt{13}$

Correct Options

Answer:01 Correct Options: D