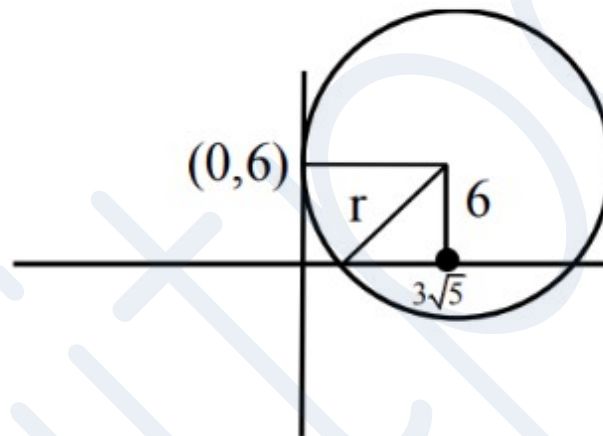


2 JEE Main 2021 (Online) 27th July Evening Shift
MCQ (Single Correct Answer)

Consider a circle C which touches the y -axis at $(0, 6)$ and cuts off an intercept $6\sqrt{5}$ on the x -axis. Then the radius of the circle C is equal to :

- A $\sqrt{53}$
- B 9
- C 8
- D $\sqrt{82}$

Explanation



$$r = \sqrt{6^2 + (3 + \sqrt{5})^2}$$
$$= \sqrt{36 + 45} = 9$$