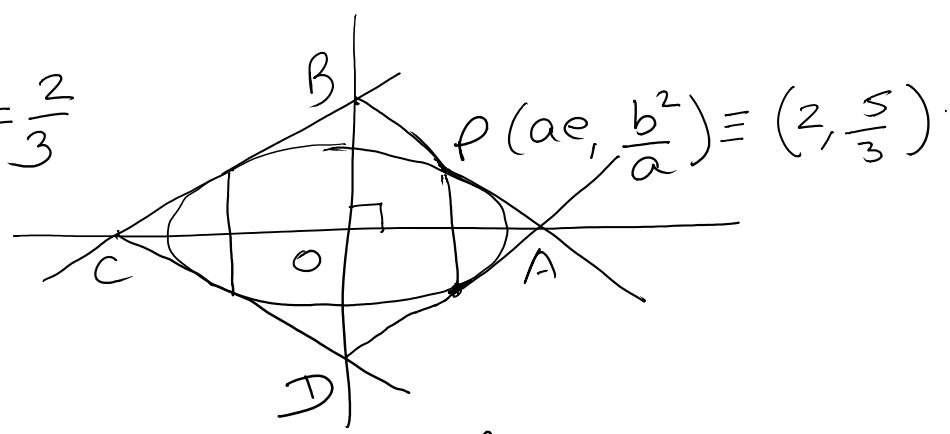


The area (in sq. units) of the quadrilateral formed by the tangents at the end points of the latera recta to the ellipse

$\frac{x^2}{9} + \frac{y^2}{5} = 1$, is:

- (1) $\frac{27}{2}$
- ✓ (2) 27
- (3) $\frac{27}{4}$
- (4) 18

$\rightarrow e = \sqrt{1 - \frac{b^2}{a^2}} = \frac{2}{3}$



ABCD is a rhombus

\therefore Area of ABCD = 4 x area of ΔAOB

Equation of the tangent AB at point P is $\Rightarrow \frac{2x}{9} + \frac{y}{3} = 1$

$\therefore OA = \frac{9}{2} ; OB = 3$

\therefore Area of ABCD = $4 \times \frac{1}{2} \times \frac{9}{2} \times 3 = 27$

Correct option is (2)