Related Questions with Solutions

Questions

Quetion: 01

An ellipse having foci at (3, 3) and (-4, 4) and passing through the origin has An ellipse having foci eccentricity equal to A. $\frac{3}{7}$ B. $\frac{2}{7}$ C. $\frac{5}{7}$ D. $\frac{3}{5}$

Solutions

Solution: 01

Ellipse passing through O[0, 0] and having foci P[3, 3] and Q[-4, 4], then

$$e = \frac{PQ}{OP + OQ}$$
$$= \frac{\sqrt{50}}{\frac{3\sqrt{2} + 4\sqrt{2}}{\frac{5}{7}}}$$

Correct Options

Answer:01 **Correct Options: C**