



MATHS

BOOKS - JEE MAINS PREVIOUS YEAR

ENGLISH

COORDINATE GEOMETRY

Others

1. A body weighing 13 kg is suspended by two strings 5 m and 12 m long, their other ends

being fastened to the extremities of a rod 13 m long. If the rod be so held that the body hangs immediately below the middle point. The tensions in the strings are (1) 12 kg and 13 kg (2) 5 kg and 5 kg (3) 5 kg and 12 kg (4) 5 kg and 13 kg



Watch Video Solution

2. Three distinct points A, B and C are given in the 2-dimensional coordinate plane such that the ratio of the distance of any one of

them from the point $(1, 0)$ to the distance from the point $(-1, 0)$ is equal to $\frac{1}{3}$. Then the circumcentre of the triangle ABC is at the point :



Watch Video Solution

3. ABCD is a trapezium such that AB and CD are parallel and $BC \perp CD$. If

$\angle ADB = \theta$, $BC = p$ and $CD = q$, then AB is

equal to (1) $\frac{p^2 + q^2 \cos \theta}{p \cos \theta + q \sin \theta}$ (2)

$$\frac{p^2 + q^2}{p^2 \cos \theta + q^2 \sin \theta} \quad (3) \quad \frac{(p^2 + q^2) \sin \theta}{(p \cos \theta + q \sin \theta)^2} \quad (4)$$

$$\frac{(p^2 + q^2) \sin \theta}{p \cos \theta + q \sin \theta}$$



View Text Solution