

08. ENGINEERING MECHANICS

1. Forces and Force Systems

1. Two forces P and Q are acting at an angle α . The resultant force R acts at an angle of θ with force P , then the value of θ will be:

- (a) $\tan^{-1} \frac{Q \cos \alpha}{P + Q \cos \alpha}$ (b) $\tan^{-1} \frac{Q \sin \alpha}{P + Q \cos \alpha}$
 (c) $\tan^{-1} \frac{Q \cos \alpha}{P + Q \sin \alpha}$ (d) $\tan^{-1} \frac{Q \sin \alpha}{P + Q \sin \alpha}$

HPPSC AE 2018

Ans. (b) : Parallelogram Law of Forces—“If two forces, acting at a point be represented in magnitude and direction by the two adjacent sides of parallelogram, then their resultant is represented in magnitude and direction by the diagonal of the parallelogram passing through that point”.



If the angle between the forces is α , then

$$R = \sqrt{P^2 + Q^2 + 2PQ \cos \alpha}$$

The direction of resultant will be

$$\theta = \tan^{-1} \left[\frac{Q \sin \alpha}{P + Q \cos \alpha} \right] \quad (\text{from Force } P)$$

2. A rigid body will be in equilibrium under the action of two forces only when:

- (a) Forces have same magnitude, same line of action and same sense
 (b) Forces have same magnitude and same line of action
 (c) Forces have same magnitude, same line of action and opposite sense
 (d) Forces have same magnitude

UPRVUNL AE 2016

Ans. (c) : A rigid body will be in equilibrium under the action of two forces only when forces have same magnitude, same line of action and opposite sense.

3. The resultant of two force A and B is perpendicular to A , the angle between the force A and B will be:

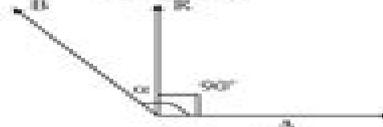
- (a) $\theta = \cos^{-1} \left(\frac{A}{B} \right)$ (b) $\theta = \cos^{-1} \left(\frac{B}{A} \right)$
 (c) $\theta = \cos^{-1} \left(-\frac{B}{A} \right)$ (d) $\theta = \cos^{-1} \left(-\frac{A}{B} \right)$
 (e) $\theta = \tan^{-1} \left(\frac{B}{A} \right)$

CGPSC AE 2014-I

Ans. (d) : We know that-

$$\tan \theta = \frac{B \sin \alpha}{A + B \cos \alpha}$$

Given, $\theta = 90^\circ$



$$\tan 90^\circ = \frac{B \sin \alpha}{A + B \cos \alpha}$$

$$\frac{1}{0} = \frac{B \sin \alpha}{A + B \cos \alpha}$$

$$A + B \cos \alpha = 0$$

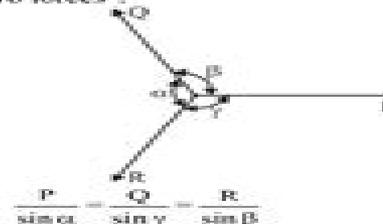
$$A = -B \cos \alpha$$

$$\alpha = \cos^{-1} \left[-\frac{A}{B} \right]$$

4. Pick the odd statement out with regard to Lami's theorem from following:

- (a) The theorem is applicable only if the body is in equilibrium.
 (b) The theorem is applicable for parallel forces.
 (c) The theorem is not applicable for more than three forces.
 (d) The theorem is not applicable for less than three forces.
 (e) The theorem is applicable for coplanar forces.
 (CGPSC Polytechnic Lecturer 2017)

Ans. (b) : Lami's Theorem—“If a body is in equilibrium under the action of three forces, then each force is proportional to the sine of the angle between the other two forces”.



5. The Lami's theorem is applicable only for :

- (a) Coplanar forces
 (b) Concurrent forces
 (c) Coplanar and Concurrent forces
 (d) Any types of the forces

TRB Polytechnic Lecturer 2017

Ans. (c) : The Lami's theorem is applicable only for coplanar and concurrent forces.

Engineering Mechanics Mcq

Mark Steyvers



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