

1.S: Centers of Mass (Summary)

SUMMARY

Triangular lamina: $\frac{2}{3}$ of way from vertex to midpoint of opposite side

Solid Tetrahedron, Pyramid, Cone: $\frac{3}{4}$ of way from vertex to centroid of opposite face.

Hollow cone: $\frac{2}{3}$ of way from vertex to midpoint of base.

Semicircular lamina: $\frac{4a}{3\pi}$

Lamina in form of a sector of a circle, angle 2α : $\frac{(2a \sin \alpha)}{(3\alpha)}$

Semicircular wire: $\frac{2a}{\pi}$

Wire in form of an arc of a circle, angle 2α : $\frac{(a \sin \alpha)}{\alpha}$

Solid hemisphere: $\frac{3a}{8}$

Hollow hemisphere: $\frac{a}{2}$

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