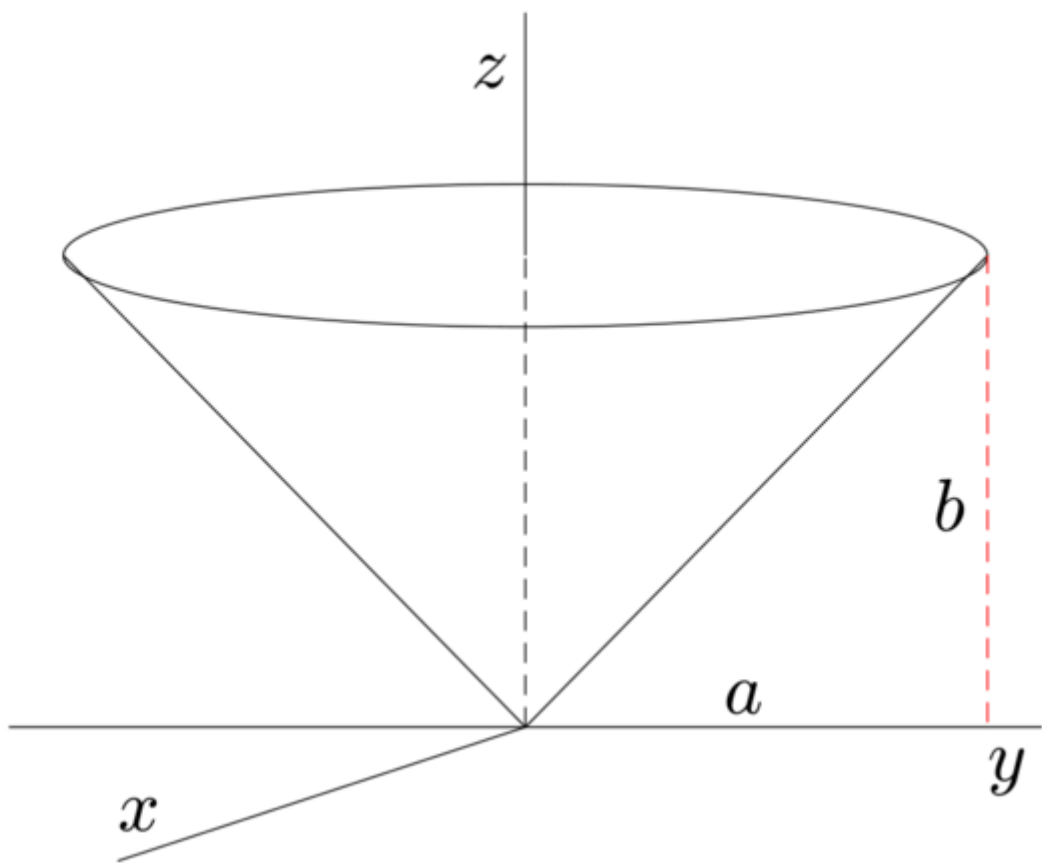


Center-of-Mass of a Uniform Solid Cone

The center-of-mass of a solid with density ρ and total mass M is defined (with respect to a given coordinate system) as

$$\mathbf{R} = \frac{1}{M} \int_V \rho \mathbf{r} dV.$$

Find the center-of-mass of the uniform solid cone pictured below, with coordinate system specified. You may assume that the volume of the cone is given by $V = \frac{1}{3}\pi a^2 b$.



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