tisdag 3 januari 2023 05:19
$$X_{T} = \frac{1}{m} \int_{\mathcal{X}} X \, dm \qquad X_{T} = \frac{15}{76\pi} \int_{\mathcal{X}} X \, dm \qquad (= 1) \quad f = 2$$

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$$M = \int_{\mathcal{X}} dm = \int_{\mathcal$$

$$\int_{1}^{\infty} = 1 \quad \lambda = 2$$

$$\int_{1}^{\infty} (x) = \frac{1}{2} \times 2$$

$$m = \int_{\xi} dm = \int_{\xi} P dV$$

$$\frac{15}{76\pi} \cdot \int_{0}^{2} X(10-x^{2}) \cdot X(4x^{2}dx = \frac{15}{76.4} \cdot \int_{0}^{2} X^{3}(10-x^{2}) dx =$$

Sz (14.14)

$$=\frac{15}{76.4}\left[\frac{15}{4} - \frac{x^{4}}{6}\right]^{2} = \frac{15}{76.4}\left(10.4 - \frac{2^{3}}{3}\right) = \frac{3.5}{76.4}\left(\frac{3.40.4 - 4.2^{3}}{3}\right) =$$

$$=\frac{5}{19\cdot2^{4}}\cdot\left(2\left(3\cdot5-4\right)\right)=\frac{5}{38}\cdot11=\frac{55}{38}1.0$$