8 havy a Joshi &

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$$\int \omega(r) d^{2}r = 1$$

$$\int \left(1 - 6\left(\frac{n}{h}\right)^{2} + 6\left(\frac{r}{h}\right)^{3}\right)^{d_{r}} + \int_{2}^{2} (1 - \frac{r}{h})^{3} dr = 1$$

$$= 1_{1}$$

$$\frac{1}{1} = \int_{1}^{1/2} (1 - 6\left(\frac{n}{h}\right)^{2} + 6\left(\frac{n}{h}\right)^{3}) dr$$

$$\frac{n}{1} = x \quad \text{and} \quad n = h \, dx$$

$$\frac{n}{1} = h \int (1 - 6x^{2} + 6x^{3}) \, dx$$

$$= t_{1} \left[x - 6x^{3} + 6x^{3}\right]^{\frac{1}{2}} + \frac{1}{2} \left(\frac{1}{4h}\right)^{\frac{3}{2}} + \frac{2}{2} \left(\frac{1}{4h}\right)^{\frac{3}{2}}$$

$$= t_{1} \left[x - 6x^{3} + 6x^{3}\right]^{\frac{1}{2}} + \frac{1}{2} \left(\frac{1}{4h}\right)^{\frac{3}{2}}$$

$$= \frac{1}{4} \cdot \frac{1}{4h^{2}} + \frac{3}{3^{2}} + \frac{3}{3^{2}}$$

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$$= 2 \frac{1}{16} \left[ \left( \frac{1}{16} - \frac{3}{16} + \left( \frac{1}{16} \right)^3 - \frac{1}{16} \left( \frac{1}{16} \right)^4 \right) - \left( \left( \frac{1}{16} \right)^4 - \frac{3}{16} \left( \frac{1}{16} \right)^4 \right] + \frac{1}{16} \left( \frac{1}{16} \right)^4 - \frac{1}{16} \left( \frac{1}{16} \right)^4 \right]$$

$$= 2 \frac{1}{16} \left[ \frac{1}{16} - \frac{9}{16} \left( \frac{1}{16} \right) + \frac{7}{8} \left( \frac{1}{16} \right) - \frac{15}{16} \left( \frac{1}{16} \right) \right]$$

$$= \left[ 1 - \frac{9}{16} \left( \frac{1}{16} \right) + \frac{7}{16} \left( \frac{1}{16} \right) - \frac{15}{16} \left( \frac{1}{16} \right) \right]$$

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$$= \frac{1}{16} \left[ \frac{1}{16} + \frac{7}{16} \left( \frac{1}{16} \right) - \frac{15}{16} \left( \frac{1}{16} \right) \right]$$

$$= \frac{1}{16} \left[ \frac{1}{16} + \frac{7}{16} \left( \frac{1}{16} \right) - \frac{15}{16} \left( \frac{1}{16} \right) \right]$$

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$$= \frac{1}{16} \left[ \frac{1}{16} + \frac{1}{16} \left( \frac{1}{16} \right) - \frac{1}{16} \left( \frac{1}{16} \right) \right]$$

$$= \frac{1}{16} \left[ \frac{1}{16} + \frac{1}{16} \left( \frac{1}{16} \right) - \frac{1}{16} \left( \frac{1}{16} \right) \right]$$

$$K\left[\frac{3}{2} - \frac{9}{4}\left(\frac{1}{12}\right) + \frac{3}{2}\left(\frac{1}{12}\right) - \frac{27}{32}\left(\frac{1}{13}\right)\right] = 1$$

$$\left[ \frac{495^3 - 725^2 + 485 - 27}{325^3} \right] = 1$$

$$|K| = 3^{2} \left[ \frac{1}{485^{3} - 725^{2} + 485^{2} - 27} \right]$$