Mo: 38.1

6)
$$x^2 + z^2 = \alpha^2$$
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$$2(5) = 4n^2 = \sigma_5 - 5_5$$
 $N = 8 \int (\sigma_5 - 5_5) d5 = 8 \left(\sigma_5 - \frac{3}{5_5}\right) \Big|_0^2 = \frac{3}{16}\sigma_5$

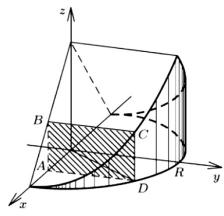
No: 38.2

$$\begin{cases} x^{2} + y^{2} = R^{2}, & \frac{x}{R} + \frac{2}{H} = 1, & \frac{x}{R} - \frac{2}{H} = -1, & y = 0, & z = 0 \end{cases}$$

$$A = L_x - x_0$$
 $S = H(1-\frac{x}{x})$

$$\frac{\mu}{R} \int_{\Omega}^{R} (A-x) \int_{\Omega}^{2} \frac{dx}{dx} dx = \mu \int_{\Omega}^{R} \int_{\Omega}^{2} \frac{dx}{dx} dx - \frac{\mu}{2R} \int_{\Omega}^{R} \int_{\Omega}^{2} \frac{dx^{2}}{dx} dx^{2} =$$

$$= \left. \left. \left. \left(\frac{x}{R} \sqrt{R^2 - x^2} + \frac{R^2}{2} \arcsin \frac{x}{R} \right) \right|_0^R + \frac{H}{2R} \cdot \frac{z}{3} \left(R^2 - x^2 \right)^{\frac{3}{2}} \right|_0^R = \frac{HR^2}{2} \cdot \frac{\pi}{2} - \frac{H}{3} R^2 = \frac{HR^2}{2} \cdot \frac{H}{3} \cdot \frac{H}{3} - \frac{H}{3} \cdot \frac{H}{3} - \frac{H}{3} \cdot \frac{H}{3} - \frac{H}{3} \cdot \frac{H}{3} - \frac{H}{$$



$$\pi \int g^2(x) dx = \pi \int e^{2x} \sin x dx = \frac{\pi}{5}$$

$$I = -e^{2x}\cos x - 2\int_{0}^{+\infty} e^{2x}\cos x \, dx = -e^{-2x}\cos x - 2(e^{-2x}\sin x + 2\int_{0}^{+\infty} e^{2x}\sin x \, dx) = -e^{-2x}(\cos x - 2\sin x) - 4I$$

$$I = -\frac{e^{-2x}}{5} \left(\cos x + 2\sin x\right) \Big|_{0}^{+\infty} = \frac{1}{5}$$

$$y = a \sin^3 t$$

$$y' = 3a \sin^2 t \cos^2 t$$

$$\sqrt{1 - a \sin^2 t} = 3\pi a^2 \sin^2 t - 3\cos^2 t + 3\cos^2 t = 3\pi a^2$$

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$$+\frac{3\cos^2 t}{2} - \frac{\cos^2 t}{2} \Big|_{\frac{1}{2}}^{\frac{1}{2}} = \frac{16\pi a^3}{105} \quad V = \frac{32\pi a^3}{105}$$

 $=\frac{6a^2\pi}{5}\qquad S=\frac{12a^2\pi}{5}$