2)
$$u(x,y) dxdy = \frac{1}{\pi R^2} \int_0^R dx \int_0^2 u(x) \cos \theta, y \sin \theta) d\theta$$

$$= \frac{2}{R^2} \int_0^R dx \cdot y \cdot u(x,0) = u(x,0)$$

$$= \frac{1}{\pi R^2} \left[\int u^2 \right]^{\frac{1}{2}} \left(\int 1^2 \right)^{\frac{1}{2}} = \frac{1}{\pi R^2} M^{\frac{1}{2}} \left(\pi R^2 \right)^{\frac{1}{2}}$$

$$(2) \quad \cancel{L}_{1} + \cancel{L}_{2} + \cancel{L}$$

$$\frac{\nabla (4 \times 1 \times 1)}{\nabla (4 \times 1 \times 1)} + \frac{1}{2} = \frac{1}{2} =$$

$$= (\lambda \gamma_1 \gamma_1 + \gamma_1^{-1} \lambda \gamma_1 + \gamma_1^{-2} \lambda \gamma_0) \frac{\gamma_1^2}{12} = 0$$

$$V(Y, \theta) = \frac{1}{2\pi i} \int_{0}^{2\pi} \frac{(d^{2}-Y^{2}) \cdot \varphi(y_{i})}{\alpha^{2}+Y^{2}-2\alpha \eta \cdot \cos(\theta-\alpha)} d\alpha = U(\frac{p^{2}}{Y}, \theta)$$

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$$u(\gamma, \theta) = \frac{-1}{2\pi i} \int_{0}^{2\pi i} \frac{(d^{2} - \frac{D^{2}}{\gamma^{2}})(\varphi(\theta))}{(d^{2} + \frac{D^{4}}{\gamma^{2}} - 2\alpha K^{2}/V(\theta))(\theta - \chi)} d\alpha$$

$$(d^2 - \frac{1}{Y^2})(Q G)$$

$$d^2 + \frac{Q^4}{Y^2} - 2QR^2/V G)$$

$$\frac{(-1)^2 \cdot (e_{1/2})}{(-2)^2 - 26\pi \cos(\theta - 0)} dd = 11 \frac{e^2}{1}, \theta$$

$$\gamma_1^{-2} \log \frac{1}{12} = 0$$