

ποπενιμια ιονια
$$ξ$$
 οναρτια $ξ$ προφού ρεφορια μικ:

$$\overline{V} = VO_+ VO_+ VO_- \int \frac{dz_1}{z_1} dz_2 + \int \frac{dz_2}{z_1} dz_1 + \int \frac{dz_1}{z_2} dz_2 + \int \frac{dz_1}{z_2} dz_2 = \frac{1}{z_2} \int_{V_-}^{V_-} \int_{V_-}$$

Как вышенямись снагаемые: \$ \[\left(\frac{2}{4}, \gammale \frac{1}{2}, \gammale \frac{1}{2}, \pi \frac{1}{2}, \frac{1}{2} \frac = \frac{1}{4}\int \left(\frac{2}{4}\int^2\left(\frac{2}{4}\int^2\reft(\frac{2}{4}\int^2\reft(\frac{2}{4}\int^2\int^2\reft(\frac{2}{4}\int^2\int^2\reft(\frac{2}{4}\int^2\int^2\int^2\int^2\int(\frac{2}{4}\int^2\i -22,82+22,29m -22,39p-22,39m / dz, = = \(\left\ \left\ \(\left\ \right\ \ - (282 + 29 P + 29 m) [Z, dZ, + g2]Z, dZ,] = = 4 { (q2 l + 9 + m2 + 28 l p + 29 m + 2 pm) l3 -- (g 2 + g p + g m) e + g 2 e 5 } = = 1/2 / 3 826 + 3 Pl + 5 mil+ 3 864 + 3 86 m+ 3 9 me -- = 2265 = 28 Pl" - 29ml" + 58265} = = { { \$\left(\frac{1}{30}\left(\frac{10}{30}\rho^2\ell^3 + \frac{10}{30}m^2\ell + \frac{5}{30}\left(\frac{9}{9}\ell^4 + \frac{5}{30}\left(\frac{9}{9}\ell^3m + \frac{10}{30}\rho me^2\ell^3 = = 100 8 e + 10 pe + 10 me + 5 8 e 4 + 5 8 e m + 20 Pme

$$\frac{1}{4} \int [3glz_{2} + Pz_{1} - \frac{m}{e} z_{2} - gz_{1}^{2} - 2ge^{2}]^{2} dz_{2} =$$

$$= \frac{1}{4} \int [3glz_{2} + Pz_{1} - \frac{m}{e} z_{2} - gz_{1}^{2} - 2ge^{2}]^{2} dz_{2} =$$

$$= \frac{1}{4} \int [3glz_{2} + Pz_{1} - \frac{m}{e} z_{2} - gz_{1}^{2} + \frac{m}{e} z_{2}^{2} + gz_{1}^{2} + 4g^{2}e^{2} +$$

$$+ z_{1}^{2} cgl \varphi - z_{1}^{2} cgm - z_{2}^{3} g^{2}e - z_{2} Izg^{2}e^{3} -$$

$$- z_{1}^{2} 2\varphi \frac{m}{e} - z_{1}^{3} 2g \varphi - z_{2} 4ge^{2}\varphi +$$

$$+ z_{1}^{3} 2g \frac{m}{e} + z_{2} 4gem + z_{2}^{2} 4g^{2}e^{3} +$$

$$+ \left[4g^{2}e^{4} \int dz_{2} + \left[4gem - 4ge^{4}\varphi - Izg^{2}e^{3} \right] \int z_{2} dz_{2} +$$

$$+ \left[4g^{2}e^{4} + \varphi^{2} + \frac{m^{2}}{e^{3}} + 6ge\varphi - 6gm - z\varphi \frac{m}{e} + 4g^{2}e^{2} \right] \int z_{2}^{2} dz_{2} +$$

$$+ \left[2g \frac{m}{e} - 2g\varphi - 6g^{2}e \right] \int z_{1}^{3} dz_{2} + g^{2} \int z_{2}^{2} dz_{2} \right] =$$

$$= \frac{1}{4} \int 4g^{2}e^{4} + \left[4gem - 4ge^{2}\varphi - 12g^{2}e^{3} \right] \frac{e^{4}}{e^{4}} + \left[9g^{2}e^{2} + \varphi^{2} +$$

$$+ \frac{m^{2}}{e^{4}} + 6ge\varphi - 6gm - z\varphi \frac{m}{e} + 4g^{2}e^{3} \right] \frac{e^{4}}{2} + \left[9g^{2}e^{2} + \varphi^{2} +$$

$$+ \frac{m^{2}}{e^{4}} + 6ge\varphi - 6gm - z\varphi \frac{m}{e} + 4g^{2}e^{3} \right] \frac{e^{4}}{2} + \left[2g^{2}e^{4} + \varphi^{2} + \frac{2g^{2}e^{4}}{2} \right] \frac{e^{4}}{2} + \left[2g^{2}e^{4} +$$

 $\int_{0}^{\ell} g^{2} \ell^{2} Z_{3}^{2} dZ_{3} = g^{2} \ell^{2} \int_{0}^{\ell} Z_{3}^{2} dZ_{3} = g^{2} \ell^{2} \frac{\ell^{3}}{3} = \frac{1}{3} g^{2} \ell^{5} =$ = 40 82 e 5