fredag 23. september 2016 10.47

$$dU = -\frac{6 \text{ Mand Mind}}{r}$$

$$U = -6 \int \frac{(4\pi r^2 p)}{3} \left(\frac{4\pi r^2 p}{3}\right) \left(\frac{4\pi r^2 p}{3}\right) dr$$

$$= -6 \frac{16\pi r}{3} p^2 \frac{p^5}{5}$$

$$= -6 \frac{16\pi r}{15} p^2 \frac{p^5}{5}$$

$$P = \frac{M}{4\pi \sqrt{R}}$$

$$U = -\frac{36M}{5R}$$

$$U = -\frac{36M}{5R}$$