VB = ? - bepmukasoroe перешещение точки В. Z,=0; $Y_c = \frac{5}{2}g\ell$ $Y_A = \frac{3}{2}g\ell$ Oy, = & (3l-2Z1) Qy = - 8 (l+ 2 Z 2) ay3 = ge P034 $\mathcal{U}_{\mathbf{z}_{i}} = \frac{g}{g} \left(3\ell Z_{i} - Z_{i}^{2} \right)$ $U_{x_2} = \frac{g}{2} \left(\ell Z_2 + Z_2^2 \right)$ $\mathcal{U}_{x_3} = -g\ell Z_3$ $Y_c' = \frac{f}{z} = Y_A^f$ $\mathcal{U}_{x_{\ell}}^{1} = \frac{Z_{\ell}}{2}$ $\mathcal{U}_{\mathcal{X}_2}^1 = \frac{\ell - Z_2}{2}$ P034 $\mathcal{M}_{\mathbf{z}_3}^{1} = 0$ Спо-соб Верецанина: $V_{0} = \frac{\mathcal{U}_{X} \cdot \mathcal{U}_{X}}{E J_{X}} = \frac{1}{E J_{X}} \left[\frac{1}{12} \frac{8 e^{3}}{4} + \left[\frac{1}{2} e g e^{2} \right] \frac{e}{2} + \left[\frac{1}{8} e^{3} \right] \frac{e}{4} + \left[\frac{1}{2} e g e^{2} \right] \frac{e}{6} + \left[\frac{1}{2} e g e^{2} \right] \frac{$ $= \frac{8\ell}{EJ_X} \left[\frac{7}{48} + \frac{7}{6} + \frac{7}{48} - \frac{7}{12} \right] = \frac{8\ell}{8EJ_X}$

Kraccwieckoe burucierus ummerpara Mapa:

$$V_{B} = \frac{\mathcal{U}_{X} \cdot \mathcal{U}_{X}}{E J_{X}} = \int \frac{\mathcal{U}_{X_{1}} \cdot \mathcal{U}_{X_{1}}}{E J_{X}} dZ_{1} + \int \frac{\mathcal{U}_{X_{2}} \cdot \mathcal{U}_{X_{2}}}{E J_{X}} dZ_{2} + \int \frac{\mathcal{U}_{X_{3}} \cdot \mathcal{U}_{X_{3}}}{E J_{X}} dZ_{3} = E J_{X}$$

$$= \frac{1}{EX_1} : \left[\frac{8}{2} / (3\ell Z_1 - Z_1^2) \cdot \frac{Z_1}{2} \cdot dZ_1 - \frac{8}{2} / (\ell Z_2 + Z_2^2) \cdot \frac{\ell - Z_2}{2} \cdot dZ_2 \right] =$$

$$=\frac{g\cdot \ell^{4}}{4EJ_{x}}\left[\left(1-\frac{\ell}{4}\right)-\left(\frac{\ell}{2}-\frac{\ell}{4}\right)\right]=\frac{g\ell^{4}}{gEJ_{x}}$$