

Aprilereauce:

A - padoma naj rajan

(dez ustrika)

A - padoma raza

(co ustrikous).

Pererene:

2) Hatger R₃₄:

Ryome y raza user meremepatypa na userpecce 3-4

na ΔT_{34} . Torga: $\Omega_{34} = R_{34} + \Delta U_{34} = -A + \frac{i}{2} P R \Delta T_{34}$ (i=3, raz ognoamonnoù

3) T.L. 34 spayeec upstapeweeenest, mo
$$Q_{24} = PC_{p}\Delta T_{34} = P \cdot \frac{5}{4}R_{\Delta}T_{34} = PR\Delta T_{34} = \frac{2}{5}Q_{34}$$

$$Q_{34} = \frac{i+2}{2} = \frac{5}{2}$$

y) $Q_{34} = -A + \frac{c}{2} \frac{1}{5} Q_{34} = -A + \frac{3}{5} Q_{34}$ $\frac{2}{5} Q_{34} = -A$ $Q_{34} = -\frac{5}{2}$

5) Anaeonerno naigen an:
$$Q_{12} = f_{12}' + \Delta f_{12} = -f_{12}' + \frac{3}{2} P k \Delta T_{12}$$

$$Q_{12} = P c_p \Delta T_{12} = \frac{5}{2} P k \Delta T_{12}$$

$$Q_{12} = + \frac{5 f_{12}'}{2}$$

6) KTD yunea paleur 2 = Ayeene = ZHi = ZGi = Qu+Qx
Qu = Qu. Dele mois zagaren: 2 = Ayune = Ho Bancesum, umo Ayum = to = the + that + that + the = = Qx + Q34 + Q41 + Q23 = Q1x + Q34 => => $Q_{12} = A_0 - Q_{34} = A_0 - \left(-\frac{54}{2}\right) = A_0 + \frac{5}{2}A$ $2 = \frac{Ao}{Q_{R}} = \frac{Ao}{Ao + \frac{5}{2}A} = \frac{2Ao}{2Ao + 5A}$

Ombem: $Q_{54} = -\frac{5A}{2}$ $2 = \frac{2A_0}{2A_0 + 5A}$

Dano: 1-2, 3-4 - изохориоге (36pg) P3 2-3,4-1-p~V P2/P1 = V4/V2 = 6 Hacimes: 7-? (6po) P2 (6po) P4 (Po) P1 V, (Vo) (6Vo) V3 V Pemenne, 1) $\frac{f_a}{f_1} = \frac{V_4}{V_2} = 6$ Myeme. p1 = p0; p2 = 6 po V2 = V1 = V0; V4 = V3 = 6V0 2) T. h. rea 2-3 44-4 por , mo $\frac{|2-3|}{|p_3|} = \frac{|p_3|}{|p_3|} = \frac{|p_3|}{$ Marigein enje p_4 : $p_3 = 36 p_0$ $p_4 = 30 p_0$ M-I Pr = d/4 3 => Po = d/6 Vo = 6 P4 = 6/0 = 12 Tile Py = Pa: 3) Katigene n: $2 = \frac{A + A + A}{Q_{12}} = \frac{A + A + A}{Q_{12} + Q_{23}}$

4) A* = (6Vo-Vo)(6po-po). \(\frac{1}{2} = \frac{25}{2}poVo\) A** = (6Vo-Vo) (36po-fpo) = 5.30 polo = 75 polo Hy = A* + A** = 25 polo + 75 polo = 175 polo 5) Que = Aux alles An = 0 => Qn = 1 lla = 3 DR ATA = = \frac{3}{2} (PRT_2 - PRT_4) = \frac{3}{2} (6poVo - poVo) = \frac{15}{2}poVo. 6) Was = A23 + 1 llas $A_{23} = (6p_0 + 36p_0) \cdot \frac{1}{2} \cdot (6N_0 - V_0) = \frac{42}{2} \cdot 5 p_0 V_0 = 105 p_0 V_0$ allas = 3 PRATa3 = 3 (PRT3 - PRTa) = $=\frac{3}{2}\left(6V_{0}\cdot36\rho_{0}-6\rho_{0}\cdot V_{0}\right)=\frac{3}{2}\cdot210\ \rho_{0}V_{0}=3/5\rho_{0}V_{0}$ llas = Aas + Allas = 105 polo + 315 polo = 420 polo $2 = \frac{A_y}{Q_H} = \frac{\frac{1}{2} 5 \rho V_0}{\frac{15}{2} \rho V_0 + 420 \rho V_0} = \frac{175}{15 + 840} = \frac{175}{155} = \frac{35}{171} \approx 0,205 \text{ wen } 20,5\%$

Ombem: 7 = 20,5%

(2/d) P2 (2V0) V2 Dane.

- Luzokopa 2-3 - uzedaja

Hachui: 7-?

lemenne:

1) T.h. pr/, mo V1 = V0 V3 = 2V0

3) $h = \frac{Ay}{Q_{xx}} = \frac{Ay}{Q_{xx} + Q_{xx}}$

Van = ku + alle An = 0 Alle = 3 PR (T2-T4) = 3 (2polo-polo) = 3 polo Rus = 3 polo

5) Q23 = A23 + All23

A23 = 2po (2Vo-Vo) = 2poVo alles = 3 PR(T3-T2) = 3 (2podlo-2polo) = 3 polo.

Q23 = 5po Vo $2 = \frac{A_{2}}{a_{12} + a_{23}} = \frac{\frac{1}{2}\rho V_{0}}{\frac{3}{2}\rho V_{0} + 5\rho V_{0}} = \frac{1}{3+10} = \frac{1}{13}$

Ombem: 7 = 13

4

P Q=0 Q=

Dani:
1-2 - uzorepieca
2-3 - uzorepieca
3-1 - agicadama
KTD yukica ! 1
AT = Tmax - Tmin
Hairmi: Ax -?

Ferulauce: $\gamma = \frac{\sum Q \dot{c}}{Q_{R}} = \frac{Q_{31} + Q_{R} + Q_{23}}{Q_{4R}} = \frac{Q_{4R} + Q_{23}}{Q_{4R}} = 1 + \frac{Q_{23}}{Q_{4R}}$ $\left(Q_{31} = 0, m.k. \quad 3 - 1 - aguadasa\right)$ $Q_{23} = A_{23} + \Delta U_{23} = 0 + \frac{3}{2} \mathcal{D} L_{\Delta} T = -\frac{3}{2} \mathcal{D} L_{\Delta} T$ $Q_{4R} = A_{4R} + \Delta U_{4R} = A_{4R} + 0 = A_{4R}$ $\gamma = \frac{-\frac{3}{2} \mathcal{D} L_{\Delta} T}{A_{4R}} + 1$ $\gamma - \mathcal{L} = -\frac{3}{2} \frac{\mathcal{D} L_{\Delta} T}{A_{4R}} = \frac{3 \mathcal{D} L_{\Delta} T}{2(1 - \eta)}$ $\frac{\mathcal{D} L_{Bem!}}{\mathcal{D} L_{A}} = \frac{3}{2} \frac{\mathcal{D} L_{\Delta} T}{1 - \eta}$ $\frac{\mathcal{D} L_{Bem!}}{\mathcal{D} L_{A}} = \frac{3}{2} \frac{\mathcal{D} L_{\Delta} T}{1 - \eta}$

5 Dano: 1-2-3-4-1 1-2-4-1 yukulor Kaamu: 1/12341 -? 3ро 11241 -? 2po Po 21/0 FV. 31/0 Ay = (310-10)(3po-po) = 4polo Que = Aux + alle = 0+ 3 PR (T2-T4) = $=\frac{3}{2}(3p_0V_0-p_0V_0)=3p_0V_0$ $Q_{23} = A_{23} + \Delta U_{23} = (3V_o - V_o) \cdot 3\rho_o + \frac{3}{2} (3V_o \cdot 3\rho_o - 3\rho_o V_o) =$ $= 6p_0V_0 + \frac{3}{2}.6p_0V_0 = 15p_0V_0$ $\frac{4p_0V_0}{3p_0V_0 + 15p_0V_0} = \frac{4}{8} = \frac{2}{9}$ 2) Hargeres Marier m.5.! 9/5/5 = pV 1 lly spageerna 2-4: p = 4po - fo. V $\int \rho = \rho_5 V_5^{-1} V_5^{-1} V_5^{-1}$ $\int \rho = \rho_5 V_5^{-1} V_5$ 15 V5-8.V-+= 4po-fo.V 15 V5.V-+-1.(-y)=-Po

The pagence:
$$\frac{1}{5} \frac{1}{5} \frac{1}{5$$

(5) Mpog-une: $Q_{25} = f_{25} + \Delta U_{25} = \frac{1}{2}(3p_0 + \frac{3}{2}p_0) \cdot (\frac{5}{2}V_0 - V_0) + \frac{3}{2}PR(T_5 - T_2) = \frac{4}{2} \cdot \frac{9}{2} \cdot \frac{3}{2} \cdot \frac{9}{2}V_0 + \frac{3}{2} \cdot \frac{3}{2} \cdot \frac{9}{2} \cdot \frac{5}{2}V_0 - 3p_0V_0) = \frac{24}{8} p_0V_0 + \frac{9}{8} p_0V_0 = \frac{9}{2} p_0V_0.$ $1241 = \frac{4900}{9900} = \frac{4}{6+9} = \frac{4}{15}$ $1241 = \frac{4}{15}$ $1241 = \frac{4}{15}$ $1241 = \frac{4}{15}$ $1341 = \frac{4}{15}$

 $\frac{Dmbem: \eta_{1241} = \frac{4}{15}}{\eta_{12541} = \frac{9}{9}}$