(1) Попачие полигропитеского проческа. Примера
Полигропитеский прочек — термодинамитемий прочек, который протенает при неизменной

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9p-e nouveronvectiono moyerra:

Tensoeumocnu. C = const.

$$pV^n = const$$

rge
$$h = \frac{C - C_p}{C - C_v}$$
 - nonagateus nountponuremons rpoyeurs.

Pasora you nouve ponuremon moyene:

$$A = \int_{V_{4}}^{V_{2}} p dV = \frac{P_{1}V_{1}}{n-1} \left(1 - \left(\frac{V_{1}}{V_{2}}\right)^{n-1}\right)$$

Уастым сиргании помиропического процеска являюте:

- 1) Uzoxopunú npoyeu (npu C-Cv, n-100, Vzvonst)
- 2) Wosapuni moyen (C=Cp, n=0, pz const)
- 3) Uzorepunemun npoque (C=00, n=1, pV=DRT= wonst)
- 4) of quadaruremuni moure (Czo, n= -Cp = t, pV =const) 1-4 - houseper nount posseremus spoyenst.
- 2) Chaze memoj manquelon a meprinent penerubusanoni rourum (bribog na ocnobe uzbecenna binpamenini que nomosi meprin a penerubusanos minquela) Nomas meprine:

$$E = \frac{mc^2}{\sqrt{1 - \frac{8^2}{c^2}}} \tag{1}$$

2 (rpogosmenu)

Penerubur mui munque:

$$\rho = \frac{m \sigma}{\sqrt{1 - \frac{\sigma^2}{c^2}}} \qquad (2)$$

Πρεοδραγοδαιμανι (1) noryraeu:

$$E^2 = \frac{m^2 c^4}{1 - \frac{6^2}{6^3}}$$

$$E^2 = \frac{m^2 c^6}{c^2 - 6^2}$$

$$c^2 - v^2 = \frac{m^2 c^6}{E^2}$$
 (3)

$$\delta^2 = c^2 - \frac{m^2 c^6}{E^2}$$
 (4)

Preospasobniae (2), nousraeu:

$$\rho^{2} = \frac{m^{2} 5^{2}}{1 - \frac{0^{2}}{6^{2}}}$$
 (5)

Rogeralise (3) u (4)
$$b(5)$$
: $p^2 = \frac{m^2 s^2 c^2}{c^2 - s^2}$

$$b_{s} = \frac{m_{s} c_{r}}{m_{s} c_{r}} E_{s} \cdot c_{s}$$

$$p^2 = \frac{c^2 E^2 - m^2 c^6}{c^4}$$

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(2) (proprimence)
$$p^{2} c^{4} = c^{2} E^{2} - m^{2}$$

$$p^{2}c^{4} = c^{2}E^{2} - m^{2}c^{6} | c^{2}$$

$$p^{2}c^{2} = E^{2} - m^{2}c^{4}$$

3 Bo chouse paz uzmenserie Tenneparpa azora npu aguadarnou ybenurenun ero obselia e 32 paza?

Pemenne:

Ypabreme Tyaccona: pV = const y-novazarem agnasara Ypabreme Mengereeba-Kranenspona:

Rogeralus Byp-e Tyanona:

$$T.u$$
 $DR = const =$ $TV^{t-1} = const$

Tunum of pagon, nongrain:

$$T_{o}V_{o}^{s-1} = T_{\kappa}V_{\kappa}^{r-1}$$

$$\frac{T_{\kappa}}{T_{o}} = \left(\frac{V_{o}}{V_{\kappa}}\right)^{r-1} \tag{1}$$

(3) (npopoimence)

$$\chi = \frac{C_p}{C_v} = \frac{C_v + R}{C_v} = 1 + \frac{R}{C_v} = 1 + \frac{2}{L} = \frac{i + 2}{L}$$
 (2)

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Roquellae (2) b(1), muyenen:

$$\frac{T_{\kappa}}{T_{o}} = \left(\frac{V_{o}}{V_{\kappa}}\right)^{\frac{1}{2}}$$

$$\frac{T_{K}}{T_{o}} = \left(\frac{V_{o}}{32V_{o}}\right)^{\frac{2}{5}} = \left(\frac{1}{32}\right)^{\frac{2}{5}} = \frac{1}{4}$$

Ombem: quenouman 6 4 paga.