

5

1	2	3	4	5
-	-	65	65	85

Dano: $V = 0,85 \lambda$
 $t = 87^\circ \text{C}$
 $m = ?$

Cu | Temenue
 $T = 87 + 273 = 354 \text{ K}$
 Dabivenu uspa u anoscipume
 spabivenu
 $P_A = P_{at} = 10^5 \text{ Pa}$

$V_1 \cdot \nu_1 = V_2 \cdot \nu_2$

Po ym-~~e~~ meneseclo - Kresneyma
 $P_{at} \cdot V = RT \cdot \frac{m}{M}$
 $m = \frac{P_{at} \cdot V \cdot M}{RT} = \frac{10^5 \cdot 0,85 \cdot 10^{-3} \cdot 32,95 \cdot 10^{-3}}{8,31 \cdot 354} = \frac{33 \text{ V}}{2947,74} = 0,0115 \text{ Kz}$

Osten: $m = 0,0115 \text{ Kz}$

4

Dano:
$r = 0,1 \text{ m}$
$2Q$
Q
$R_n = n \cdot R_{n-1}$
$\varphi = ?$

Temenue
 $q = R$



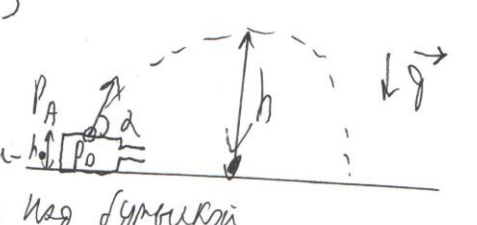
$\varphi = k \cdot \frac{2Q}{r} + k \frac{Q}{r_1} + \dots + k \frac{Q}{r_n}$
 $\varphi = \frac{kQ}{r} \left(2 + \frac{1}{q} + \dots + \frac{1}{q^n} \right)$

Osten: $\varphi = \frac{kQ}{r \cdot 10^{-4}} \left(2 + \frac{1}{q} + \dots + \frac{1}{q^n} \right)$
 $\varphi = \frac{kQ}{r \cdot 10^{-4}} \left(2 + \frac{1}{q} + \dots + \frac{1}{q^n} \right)$
 $\varphi = \frac{kQ}{r \cdot 10^{-4}} \left(2 + \frac{1}{q} + \dots + \frac{1}{q^n} \right)$

3

Dano:
$\alpha = 70^\circ$
$h = 1,20 \text{ m}$
$\varphi = ?$

Temenue
 $P_0 = \rho g h_0$
 $P_A = \rho g h_A$
 $P_B = \rho g h_B$
 $P_C = \rho g h_C$
 $P_D = \rho g h_D$
 $P_E = \rho g h_E$
 $P_F = \rho g h_F$
 $P_G = \rho g h_G$
 $P_H = \rho g h_H$
 $P_I = \rho g h_I$
 $P_J = \rho g h_J$
 $P_K = \rho g h_K$
 $P_L = \rho g h_L$
 $P_M = \rho g h_M$
 $P_N = \rho g h_N$
 $P_O = \rho g h_O$
 $P_P = \rho g h_P$
 $P_Q = \rho g h_Q$
 $P_R = \rho g h_R$
 $P_S = \rho g h_S$
 $P_T = \rho g h_T$
 $P_U = \rho g h_U$
 $P_V = \rho g h_V$
 $P_W = \rho g h_W$
 $P_X = \rho g h_X$
 $P_Y = \rho g h_Y$
 $P_Z = \rho g h_Z$



$\rho g h = \frac{m v^2}{2}$
 $v^2 = 2gh$
 $v = \sqrt{2gh}$
 $v \sin \alpha = v_y = \sqrt{2gh}$

$$v = \frac{\sqrt{2gh}}{\sin \alpha} = \frac{\sqrt{2v}}{\sin 70^\circ}$$

~~$\Delta p = \rho$~~ ~~Есть для расчета высоты для расчета~~ ~~плотности~~

$$H = \frac{2v^2}{-2g} = \frac{2v}{5 \cdot \sin 70^\circ} = \frac{6}{5 \cdot \sin 70^\circ}$$

$$P_A = \rho g H \quad \rho = \frac{P_A}{g H}$$

$$\Delta p = \rho g H$$

$$P_A = \rho g H$$

$$P_B =$$

~~Δp~~

$$H = \frac{2v^2}{-2g} = \frac{6}{5 \sin 70^\circ}$$

$$P_B = \rho g H$$

$$P_B - P_A = \rho g H$$

$$mg = ma$$

3)



$$h = \frac{gt^2}{2} \quad t = \sqrt{\frac{2h}{g}} = \sqrt{0,2v}$$

$$v_y = gt = 10 \cdot \sqrt{0,2v}$$

$$v_x =$$

$$h = \frac{v^2 \sin^2 \alpha}{2g}$$

$$v_y = v \sin \alpha$$

$$v = \frac{2gh}{\sin^2 \alpha}$$

$$v = \sqrt{\frac{2gh}{\sin^2 \alpha}}$$



Чепмелук

4

$$R_n = nR_{n-1} = n^2 R_{n-2} = n^3 R_{n-3}$$



$$\frac{12+3}{5} = \frac{15}{5} = 3$$

$$Y = k \frac{2L}{R^2 R_0} + k \frac{R}{R^2 R_0} + k \frac{L}{R_0 n^2 n^2}$$

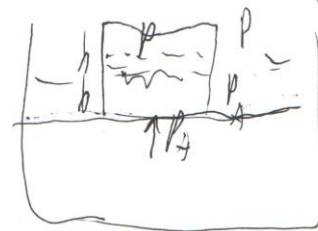
$$Y = \frac{kR}{R_0} \left(\frac{1}{n^2} + \frac{1}{n^2} + \frac{1}{n^2} \right) + \frac{1}{n}$$

$$Y = \frac{kR}{R_0} \left(\frac{n^{n-2} \cdot n^{n-2} + n^{n-2} \cdot n^{n-2}}{n^{n-2} \cdot n^{n-2}} \right) + \frac{1}{n}$$

5

$$V = 1,85 \lambda$$

$$\frac{39,95}{35}$$



$$0,85 \cdot 10^{-4}$$

$$1 = 0,001 \lambda^3$$

$$0,85 \lambda = 0,001 \lambda^3$$

$$85$$

$$P_0 V = R T_1$$

$$P_0 V = R T_2$$

$$P_0 V = R T \cdot \frac{m}{M}$$

$$m = \frac{P_0 V M}{R T}$$

$$10^5 \text{ Pa} = P$$

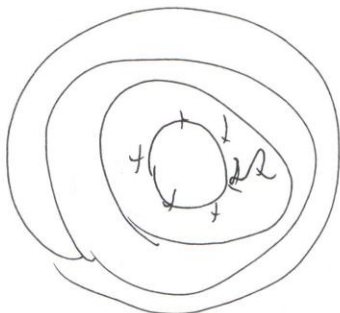
$$1 - 0,001 \lambda$$

$$2 - 0,001 \lambda$$

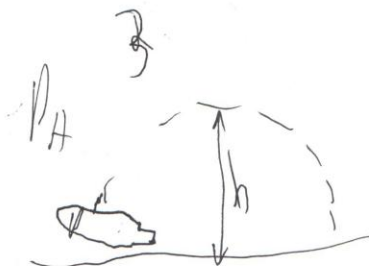
$$P_0 V_0 = R T \cdot \frac{m}{M}$$

$$n = \frac{P_0 V_0 M}{R T} = \frac{10^5 \cdot 0,001 \lambda \cdot 35 \cdot 10^{-3} \cdot 39,95 \cdot 10^{-3}}{8,314 \cdot 354}$$

4



39,952 mm



$$1 = 0,001 \times^3$$

$$\frac{1273}{354}$$

$$\frac{h_1}{g - g}$$

$$\frac{1 - 5 \times 12,1}{2}$$

$$f = \frac{h_1 (g^{n-1} - 1)}{g - 1}$$

77

$$1 \left(\frac{1}{g^{n-1}} - 1 \right)$$

$$\begin{array}{r} \times 39,95 \\ 19 \quad 9 \quad 7 \quad 5 \\ 319 \quad 6 \quad 0 \\ \hline 3 \quad 3,9 \quad 5 \quad 7 \quad 5 \end{array}$$

$$77 \quad 0,7 \cdot 10^{-3}$$

$$P_n = \rho g h_0$$

$$P_n = \rho g h$$



Уравнение

$$q = k \frac{L}{r} + k \frac{R}{r g} + k r \frac{L}{g^2}$$

$$P_n = \rho g H$$

$$P_n = 10^5$$