Francisco Jordinar Mareiro de Motes -569933 60+68++6/9 = by +68.0 + 5/19 Wolver g' cob og OT 6 L 2 11= 12dy The Do graphed outerion: $V = \sqrt{2g(h-x)}$ Tempo do graphe $X = \frac{1}{8}$ The Dough of the properties of $X = \frac{1}{8}$ The Dough of the properties of $X = \frac{1}{8}$ The Dough of the properties of $X = \frac{1}{8}$ The Dough of the properties of $X = \frac{1}{8}$ The Dough of the properties of $X = \frac{1}{8}$ The Dough of $X = \frac{1}{8}$ The D $\lambda = \frac{1}{4} \cdot \frac{1}{4} \cdot$ 0) x= N/3
i) Bernoulli setre, 1 e d; 0 + e/y2
er Thi P1+ e/9h1 + e/y2 = P2 + e/y2
P1 + e/9h1 = P2 + e/y2

2 That P1 + e/9h1 = P2 + e/y2 ii) Barnoulli sentre 2 2 3: Pa + Pa8ha + Pi 12 = P3 + Pa 8.0 + Pa 13 Source of (61/1 + 69/4) = 13 = (58(61/1 + 69/9) = 198/1 (61/69) = [3,9,8,0,5.(0,69+1)] = 4,07 ml)

$$\int_{1}^{2} |\partial f'(u)|^{2}$$

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O5) Seja m a mossa de faquete + gás.
Una quantidada dm de gas exapo e alinge a relacidade dado pela Eq. de Bernaulli

 $\frac{3}{6} \frac{1}{3} \frac{1}$

Per cente de conservaçõe de memente linear, a 100 cente de conservaçõe 100 cente de se 100 cente de 100

A vovioçõe do quantidade de movimente de coguete 2 191 ?

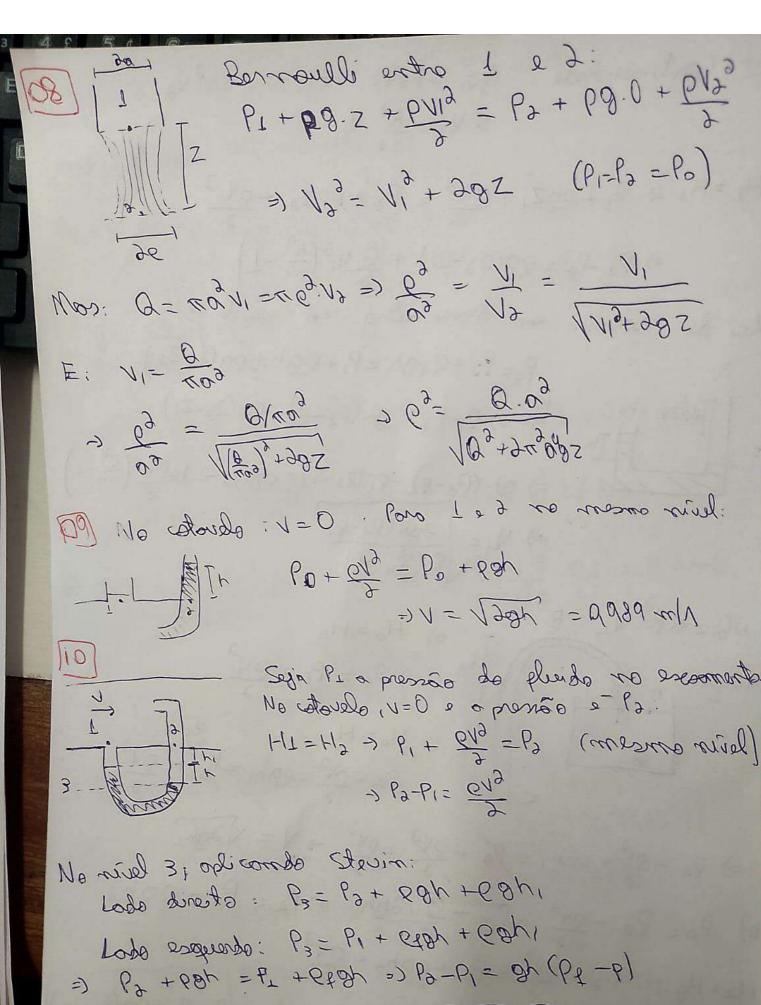
 $\nabla b = (\omega - \varphi \omega) \cdot \Lambda^{2} - \omega \cdot \Lambda^{0} = (\omega \varphi \omega) \cdot \frac{\omega - \varphi \omega}{(-\varphi \omega)} \cdot \Lambda^{1} = -\varphi \omega \cdot \Lambda^{7}$

 $A F_R = \frac{dP}{dt} = -\frac{dm}{dt} \cdot V_1 = -Q \cdot A \cdot \frac{dx}{dt} \cdot V_1 = -Q \cdot A \cdot V_1^2$

Onde de poi a distância linera que dem perconen descrite, et. Ou sejo: $\frac{dx}{dt} = V_L$

~ |PR| = (8-1/1) = (1.4.2 = (1.4) = 2A(P-Po)

(00) Velocidade da augo ao soin de evições: 6+684+651; = 6+60.0+ 5/4 -21= 1384 - itmosp amen rigo supor de skolisalell : Pier augio 1960 es me abab 13 = gur. 1 0-V. Ap = V. Ap = 0. (com+cm) (c V. ap = 0. (com+cm) (c V. ap = 7 (com+cm) - 0. (com+cm) (c V. ap = 0. (com+cm) (c => 0= <u>Aghet</u> Demolli artro 1 e d: $X = X \cdot 31 = E \cdot X \text{ on } X = E \cdot X$ 11) Semelhoneo do trióngulo: $X = X \cdot 31 = E \cdot X \text{ on } X = E \cdot X$ $X = X \cdot 31 = E \cdot X \text{ on } X = E \cdot X$ Disordo o allero de ogno e / ren volume é: $V = T \times^2 Y$ $= V - T \times^2 \cdot \frac{h}{R} \times = \frac{\pi h}{3R} \times^3 = T \cdot \frac{R^2}{3R} \times^3$ $= T \cdot \frac{R^2}{3R} \times^3 = T \cdot \frac{R^2}{3R} \times^3$ Querego o obser coi nu gl: 9/ = - El /g /g gl sugo de smeder a, the aprox at aloratri ancom all In warns the control of: $\frac{V_3}{V_3}$ $\frac{3}{7}$ = $\frac{1}{5}$ $\frac{3}{7}$ = $\frac{1}{5}$ \frac



=) 5/3 = 3x (6t-6) =) 1= /30x (6t-6)

[05]

En Boncoull:
$$(\frac{R}{R})^{4} \cdot V_{1}^{2} = V_{1}^{2} + \frac{1}{28}V_{1}$$

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$$= 3V_{1} = \sqrt{\frac{R}{R}} \cdot V_{1} = \frac{1}{28} \cdot \frac{1}{28}V_{1}$$

$$= \frac{1}{28} \cdot \frac{1}{28} \cdot \frac{1}{28} \cdot \frac{1}{28} \cdot \frac{1}{28}V_{1} = \frac{1}{28} \cdot \frac{1}{28}V_{1} =$$

11 Continueidade:
$$A_{11} = A_{2}V_{3} \rightarrow \pi R^{3} V_{1} = \pi n^{3} V_{3}$$

$$\Rightarrow V_{3} = \frac{R^{3}}{n^{3}} \cdot V_{1}$$

$$H_{1} = H_{2} \Rightarrow P_{1} + QgZ_{1} + \frac{QV_{1}}{2} = P_{3} + QgZ_{3} + \frac{QV_{2}}{2}$$

$$\Rightarrow P_{1} - P_{3} = Qg(2_{3} - 2_{1}) + \frac{Q}{2}V_{1}^{3} \left(\frac{R^{4}}{n^{4}} - 1\right)$$
Loi de Shavim no Manamaho no mival 3:
$$P_{3} = P_{3} + Q_{3}V_{1} + Q_{3}V_{1} + Q_{3}V_{2} + Q_{3}V_{2} + Q_{3}V_{3}$$

$$P_{1} = P_{3} + Q_{3}V_{1} + Q_{3}V_{1} + Q_{3}V_{2} + Q_{3}V_{2} + Q_{3}V_{3} + Q_{3}V_{3}$$

$$P_{1} = P_{3} + Q_{3}V_{1} + Q_{3}V_{1} + Q_{3}V_{2} + Q_{3}V_{2} + Q_{3}V_{2} + Q_{3}V_{3} + Q_{3}V_{3}$$

$$=) V_{1} = \frac{28 y (64-6)}{58 y (64-6)}$$

$$=) V_{1} = \frac{58 y (64-6)}{58 y (64-6)}$$

$$|A| = \alpha R^{\circ} \cdot V_{\perp} B$$

$$|A| = |A| = |A| + |A| = |A| + |A$$

C) Em B:
$$H_{8} = P_{8} + Q_{8}h_{0} + \frac{Q_{8}h_{0}}{2} = d_{8}$$
 $P_{8} = Q = P_{8} + Q_{8}h_{0} + \frac{Q_{8}h_{0}}{2} = d_{8}$
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 $P_{8} = Q_{8}h_{0} + Q_{8}h_{0} + Q_{8}h_{0}$
 $P_{8} = Q_{8}$

Sejo o mosso: dm = e.dV =) dF = a.dm = ae.dV

Mos a = vederação certripla:

 $= \int_{-\infty}^{\infty} \int_{-\infty}^$

=) $b - b^{\circ} = -\frac{8\mu_{9}\nu_{9}}{6\mu_{9}}$ =) $b = b^{\circ} -\frac{8\mu_{9}\nu_{9}}{6\mu_{9}}$

Grandodgo: C= 94UN => 6=60 - 6469349

=> 6=6° - 51g