Comigé CCI - SRI GP3 2024/2025 (07/11/24 Méca Point 1 Q2.2) wents:  $0_{3} = 0 - 1.5 = -3 \times \frac{10^{-1}}{5} = -0.3 \text{ m/s}^2$  $\overrightarrow{a}$ ) Faux, car  $\overrightarrow{L} \overrightarrow{w} t^2 \overrightarrow{J} = \overrightarrow{T}^{-1} \overrightarrow{T}^2 = \overrightarrow{T} \neq 1$ . 3)  $a_{y} = a_{3} = 3$   $V_{y} - V_{3} = a_{y} = a_{3}$ b) Faux , can [w] = T + [Vm] = V[m]  $= \left(\frac{M}{MT^{-2}}\right)^{1/2} = \left(\frac{1}{T^{2}}\right)^{1/2}$  $=> V_4 = a_3 \times t_1 + V_3$ Vy = -0,3 x 10 + 0 = -3 m/s 1) m= 45 × 10 17 kg, R=50 km 9)  $V_5 = \frac{2}{3}V_2 = -\frac{2}{3} = -4 \text{ m/s}$ i)  $g = \frac{Gm}{R^2} \Rightarrow \overline{LG} = \overline{LR^2}g/m\overline{J}$ =  $L^2 \circ LT^1M^$  $a_5 = \frac{V_5 - V_4}{t_5 - t_4} = \frac{1 - (-3)}{45} = \frac{2}{45} m/s^2$ on doit supposer to = ty = tz-ta (i)  $g = 5 \times 10^{-11} \cdot 1.5 \times 10^{17}$   $(50) 10^3)^2$ 5/1,5 Q\_Em/s^2]
0,1
2/45
2/45 5)1,5 V2 Cm/52  $= 5.15.10^{-11}.10^{16}$   $(5.10)^{2}$ 2/45 Fa: poussée d'Archimode

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R-Poids

Frot: Force de propulsi

Frot: Force Frottement 1) Vx(t) [m/s 1,5 10 \$ 55, 60 7) == ma => S Famop - Forot = max LFA-P = may = 0 2) 0,1 (ax [m/52] Q1 = 1-0 = 011 m/02 8) P = mg = 70 x 10 = 700 N poonts principales - [2] = Fonce?  $t = \frac{a_{2} = 1.5 - 1}{55 - 10} = \frac{0.8}{45} = \frac{1}{9} \times 10^{9} \text{ m/o}^{2}$ - Kg n'st par \$1? - parte accoleration / E = 00 = 3= 400 = 0,0333 000 0 M/N - vecturen -> run compo santez. -0,3