③ 81790.5 = 1355939955.95

$\sqrt{v^2} = \sqrt{591.63}$

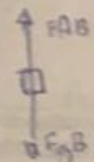
hB = 42.6 m

①

$F_gA = FNA$ > $F_gB = FNB$ > Fe = FAB

= 49.05   = 39.29N   = 30N

②



$\Sigma F_yB = m \cdot a\, yB$

FAB - FyB = 1.5 · mB

FAB - 9.81 · mB = 1.5 mB

FAB = 143.15N

143.15 - 9.81 mB = 1.5 mB

143.15 = 11.31 mB

mB = 12.65 kg

6.)

FAB = .15(76.96) - 44.8 = 0

FAB = 32,68N

15.23 + FAB - 32.68 = 0

FAB = 32,68

$\mu = \frac{17.45}{56,85}$

μ = 0.307

3) $\Sigma F_yA = mA \cdot a_yA$

FNA - FyA = 0

FNA - 39.33 = 0

FNA = 39.33N

60 - FAB - 0.69(39.33) = 3.5(2.87)

⑥ **FAB = 27.78 N**

$\mu_B = \frac{18.79N}{31.39N}$ = **μB = 0.6**

4. FE = 45N

FgA = 3.929N

FgB = 9.81 · mB   **Marc = 9.68 kg**

mB = 7.8 kg   MA = M cubeta + Mcem

7.8 = 0.4 + Mcemento   **Mcemento = 7.4 kg**

5) FAB + 0.35(71.3) - 33.16 = 0

FAB = 22.5N

22.5 - 9.81 mB - 16 = 0

mB = 66 kg

FAB - 6.5 = 0.66 aB => FAB 6.66 ayB + 6.5

(6.66 ayB + 6.5) - 25.33 = -8 ayB

ayB = 2.17 m/s²