Overtion 1

Weight of create X = 2016 Weight of create B = 12016

Coefficient of state friction between A and plane Ma = 0.25

STORCE = 0

- 7 220510+120810 Fg1-Fgs=0
- = 220 snot 120 sno = F9x + FB
- => 200 and + 120 sin 0 = Mx220 cos 0 +Mxx120 cos 0
- = 340 sind = 55000 + 30000 = 85000
- $\frac{1}{3} = \frac{14.03624347^{\circ}}{340} = \frac{14.03624347^{\circ}}{40}$

FPA = MA X Horand Bracon exateA

FB: 1/3 X Hormal Torce on wate B

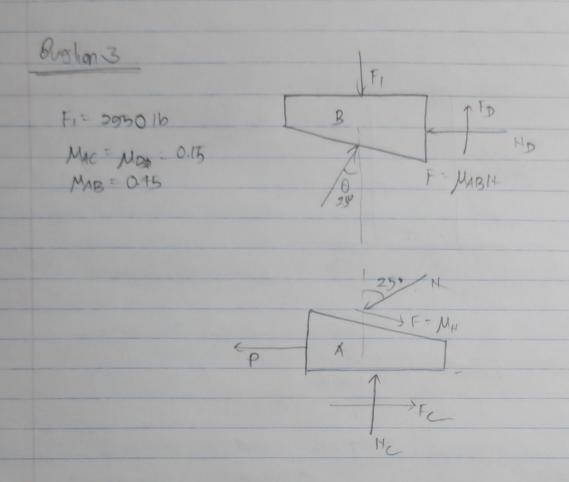
2:3 Pt 230kg Ms = 0.55

Σty=0 N=W -2301b

P= MXN = 0.55X230 =126.5

(Ams)

Hibrory



ΣFx = 0

- > Fas 25° + Hc Hsines = 0
- =) MAB HOSZ5 + HO HSIN25 =0
- > 0.45 H ars 25 Nome 5 + Hg = 0
- 7 HD = 0.0147797575H -

2Fy=0 FAMOS + HOSOS + FD-F,=0 FMAZ HSMOS + HOSOS + MEDHO-F,=0

⇒ 0.45 H5m25+ Hcos25+015No-2950=0 ⇒ N = 2684.984899 From O,

HD = 39.68341408 16

SF4-0 => Fostb5+Fc -P-Hsm25 = 0 =) MAB N COS 23 + MEA HC -P-N SITES = 0 - (1) 7 Hc - Hcosety - Fornety = 0 => HC = HOOS 25+ MABHSINDS =) HC = 2944.04748816 - (11) Putting (11) in (1), P = (0.45 x 2684.98400 x co(25)) + (0.15 x 294+04748 8) -(2684 984 xnn (17)) = 401.9237091 (Ans)

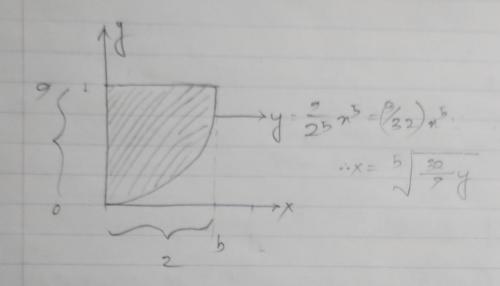
-3

3

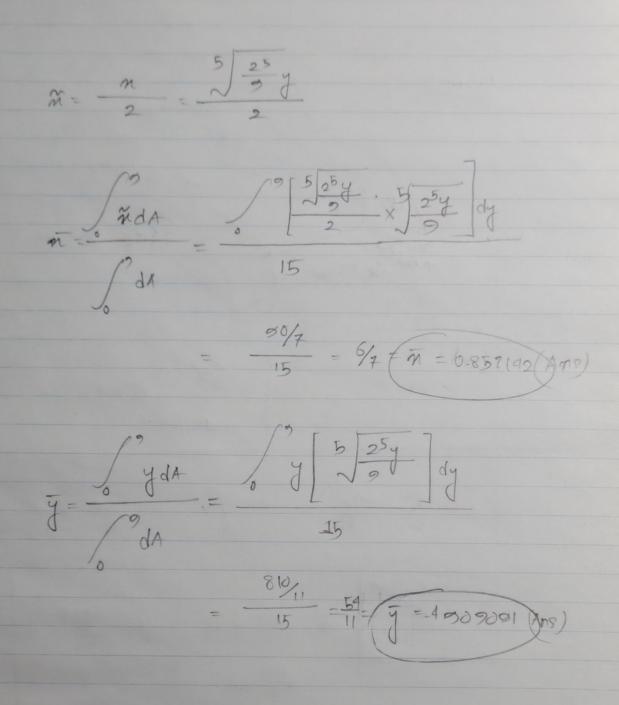
3

Hilroy

Overtion 4



= 15



Hilron

