

calculand as trages e For ças = Te (-132, -32, + 32) = Tc = (-1 2, 16 3, +2 2) @ FA = FAR. (OZ, OŽ, -1K) To AD. To $\frac{1}{16} = AD \cdot \frac{1}{16} = \frac{1}{16} \cdot \frac{1$

$$78 - \frac{16}{4} \cdot \frac{1}{4} \cdot \frac{12800}{4}$$

$$-\frac{18}{4} \cdot \frac{12800}{4} \cdot \frac{12800}{4}$$

$$-\frac{12800}{4} \cdot \frac{12800}{4}$$

$$-\frac{12800}{4} \cdot \frac{12800}{4}$$

$$-\frac{12800}{4} \cdot \frac{12800}{4}$$

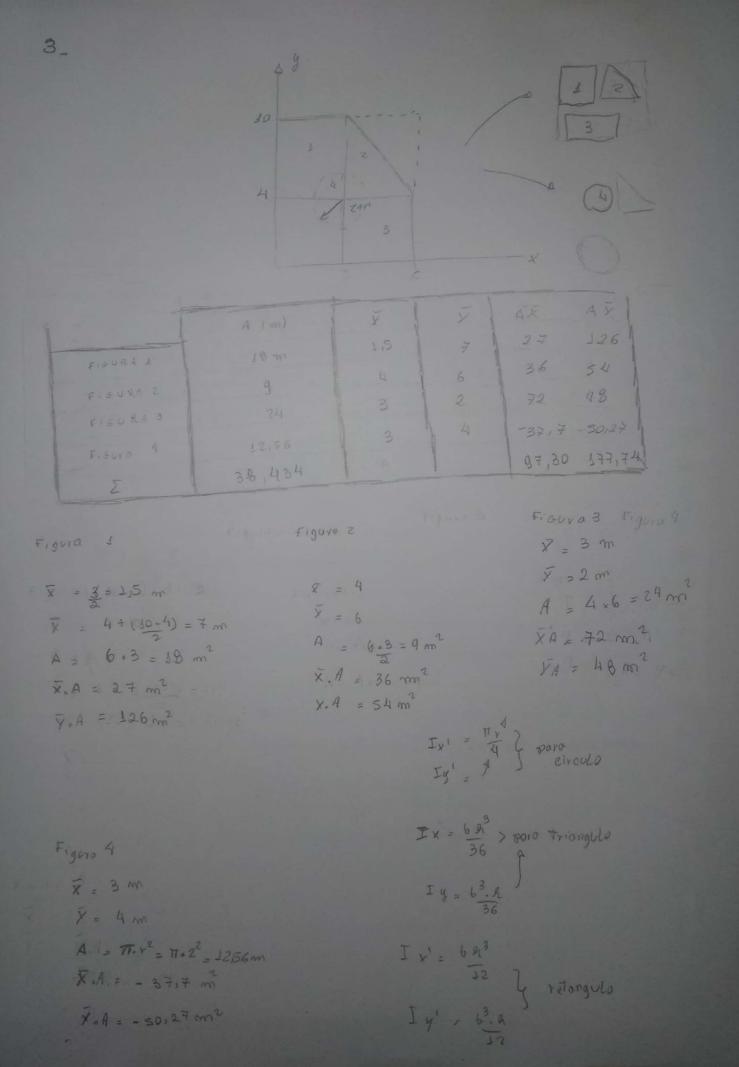
$$-\frac{1280}{4} \cdot \frac{12800}{4} \cdot \frac{12800}{6} \cdot \frac$$

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$$\begin{array}{lll}
\bullet & = & (020, 03, -12) \cdot F_{A2} \\
& = & (02, 03, -2400) \cdot D \\
& = & (02, 03, -2400) \cdot D
\end{array}$$

$$\begin{array}{lll}
\text{# Encentivando as } & F_{B} \cdot G_{A} \cdot G_{A}$$

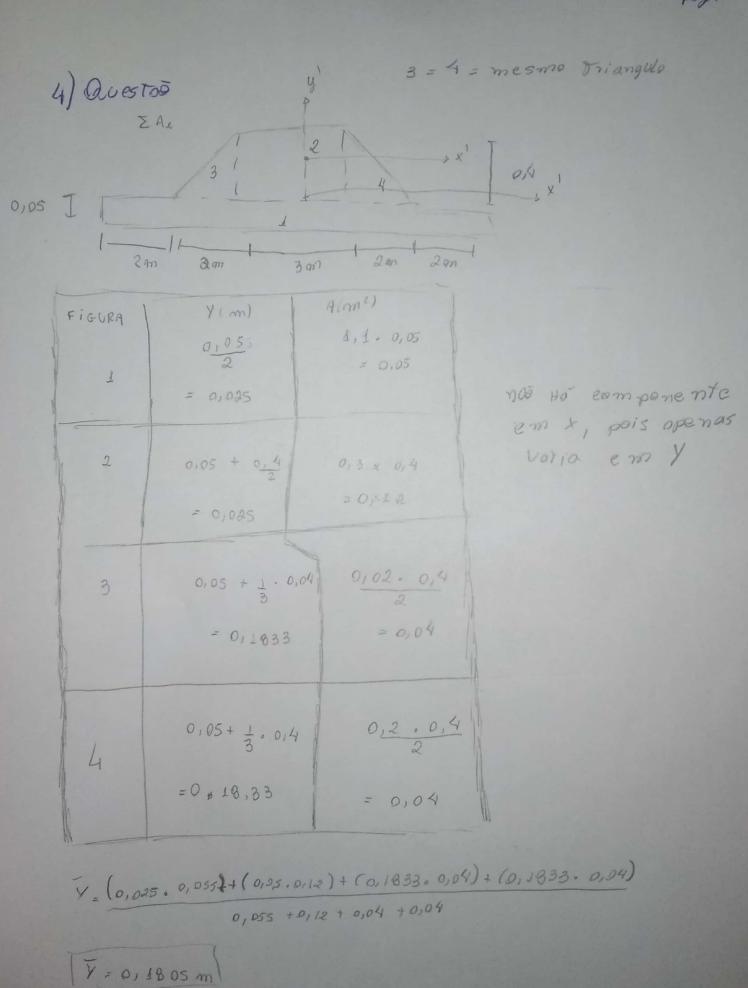
ado tando o sentido Paro o mamento (EFX= O = -300 + (200 . 2050) - 1605 45° 150 + 0x) =0 : -300 + 2000 0,8 - cos 45° 150+ 0x =0 0x= 300 + cos 45° 150 - 200 0,8 0x = 300 + 106,06 - 150 0x = 246, & N (2 Fg = +200.5en@ + Oy + 150.5en 45° Q=+200.0,6 + 106,66 Q= + 126,06 N (no = -150 cas 45. 2,5 -300.3 + 200. cas 0 = -150 205 45 . 7,5 - 900 + 200 . 0,8 = +815,49 Ng



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momento de Inercia Ix= Ix + dy. A & Iv= Iy1 + Jx2 A Figure 3 FIGURA (RETANGULO 1) I x3 = 6, 43, 14, 4 Ix = 6.93 . dy . A = 6. 4³ + £.24 = 3.63 . 72, 18. = 54 +882 = 9 36 m² Figuro 4 FIGURO Z Ira = 6.43 + 2y2. A IX4 = - H. 16 + 4TT , 23 = 3.6 × 9.6 = 213, 63 m² = 18 + 324 - 342 m pe megativo, país e necessaria tivas a 'H somatoria Ix = Ix1 + Ix2 + Ix3 - Ix4 circula = 936 + 342 + 128 + 213,63 = 1192.37 mg

oou continuando # Em y -) FARMULA I = Ig + dx2, A Figura 1 Figuro Z Igz = 6.33 + 42,9 $I_{y_1} = 6.3 + 1.5^2 + 18$ = 4,5 + 114 = 13,5 + 40,5 = 148,5 m2 = 54 m² Figuro 3 1 43 = 4,63 + 32,24 Ig4 = T . 2 + 47.3° = 72 + 216 = 125.66m = 288 m2 nevo mente retirando re parcelo de executo Iy = Iy, + Iy2 + Jy3 - I +4 # Somatoria em Y = 54 + 148,5 +288 - 125,66 = 364,84 m/



. . o continuondo

encontrondo em Y

Figura &

$$I_{4} = (4,1)^3 \cdot 0.005 + 0.055$$

$$= 5.55 \cdot 10^3 \text{ m}^4$$

$$T_{yz} = (0.3)^3 \cdot 0.4 + 0.012$$

$$= 9.10^4 \text{ m}^4$$

$$I_{y_3} = \frac{(0.2)^3 \cdot 0.4}{36} + (0.15 + \frac{1}{3} \cdot 0.02^2) \cdot 0.04$$

 $I_{y4} = como$ $I_{g4} = I_{g3}$ ambas soo mes mo bose Triongulas de mes mo bose

SomaTorio

$$I_{y} = I_{y1} + I_{y2} + I_{y3} + I_{y4}$$

$$= 5,55.10^{-3} + 9.10^{-9} + 1,97.10^{-3} + 1,97.50^{-3}$$

$$= 0,05.039$$

$$= 10,39.40^{-3}m^{4}$$