Nombre de alumno: Henry Fco. Morales Diaz

Nombre del profesor: Pedro Alberto García

Nombre del trabajo: Trabes

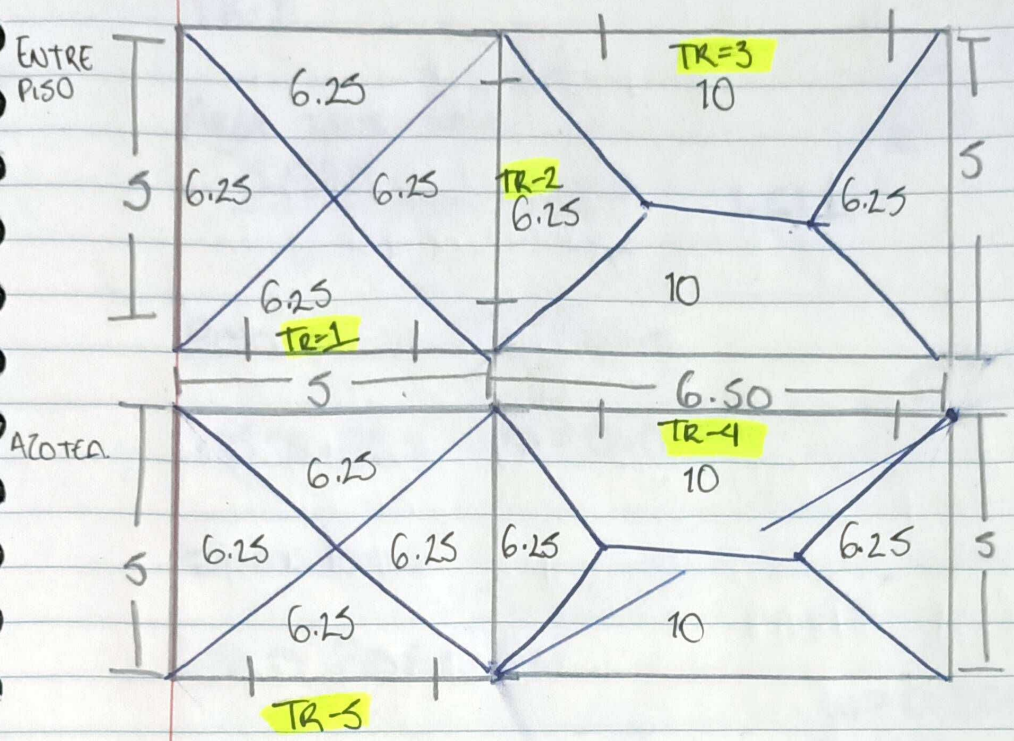
Materia: Análisis de estructas

Grado: 5to Cuatrimestre

Grupo: LAR04EMC0120-A

Comitán de Domínguez Chiapas a 2 de febrero del 2022

ANALISIS DE ESTRUCTURAS...



PERALTE

$\frac{20}{170} + .0254 = 0.143$

$\frac{23}{170} + .0254 = .0160$

> 25 CASETON

PESO DE AREA TRIBUTARIA.

ENTRE PISO

$6.25 m^2 \times .635 kg/m^2 = 3.968 t/m$

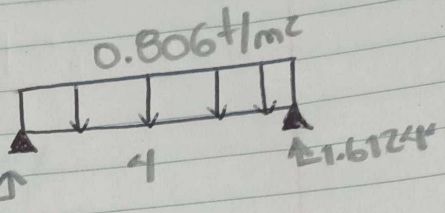
$10 m^2 \times .635 kg/m^2 = 6.350 t/m$

AZOTEA.

$6.25 m^2 \times .665 kg/m^2 = 4.156 t/m$

$10 \times .0665 kg/m = 6.65 t/m$

TR-1



AREA TRIBUTARIA.

$\frac{3.968}{5} = 0.7936$

Peso propio de trabe.

.15 x .35 x 2.40 = 0.0126m

Sumatoria.

$\omega = 0.8062\ t/m^2$

$\omega = 0.8062\ t/m^2$

$R_A = R_B = \omega(L)/2$

$\frac{0.8062(4)}{2} = 1.6124$

TR-2

AREA TRIBUTARIA.

$\frac{3.9687}{5} = 0.7937 \times 2 = 1.5874$ t/

PESO PROPIO DE TRABE

$.15 \times .40 \times .240 = 0.0144$ t/m

PESO DE MURO

$2.55 \times .270 = 0.6885$

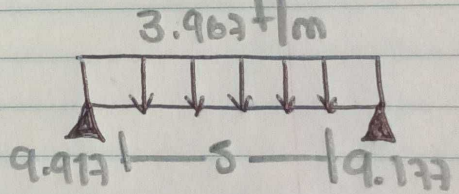
PESO PROPIO DE CADENA DE CERRAMIENTO.

$0.15 \times 0.40 \times .240 = 0.0144$

AREA TRIBUTARIA DE AZOTEA

$\frac{4.1562}{5} = 0.8312 (2) = 1.6624$

TOTAL = 3.9671 t/m²



$R_A = R_B = \frac{3.9671 (5)}{2} = 9.9177$ t/

TR-3

AREA TRIBUTARIA

$$\frac{6.35}{6.50} = 0.9769$$

PESO PROPIO DE TRABE

$0.15 \times 0.55 \times .240 = 0.0198$

PESO PROPIO DE MURO.

$2.70 \times .270 = 0.729$

PESO PROPIO DE CADENA DE CERRAMIENTO.

$.15 \times .25 \times .240 = 0.009$

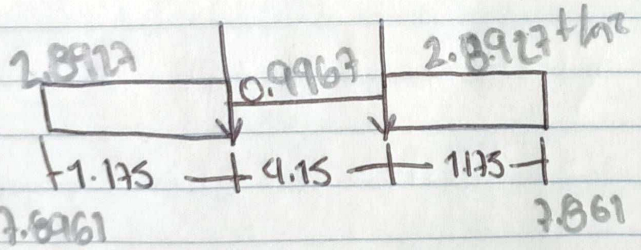
AREA TRIBUTARIA DE AZOTEA.

$$\frac{6.65}{6.50} = 1.0230$$

PRETIL.

$0.50 \times .270 = 0.135$

TOTAL. 2.8927 t/m^2



TR-4

PESO PROPIO DE LA TRABE

$.15 \times 0.35 \times 2.40 = 0.0126$

PESO PROPIO DE MURO (DRETLL)

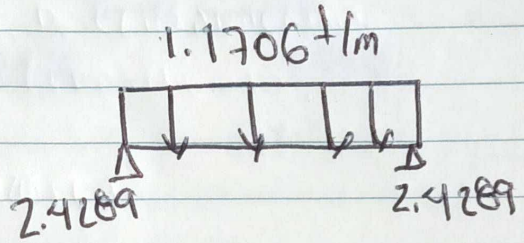
$.50 \times .270 = 0.135$

AREA TRIBUTARIE DE AZOTEA.

$\frac{6.65}{6.50} = 1.0230$

SUMATORIA.

1.1706



TR=5

PESO PROPIO DE TRABE
0.15 X .35 X .270 = 0.0126
PESO PROPIO DE MURO
0.50 X .270 = 0.135

ARE TRIBUTARIA DE AZOTEA.
$\frac{4.1562}{5} = 0.8312$

TOTAL =
0.978 t/m²