



**Nombre de alumno: Bladimir Trujillo
Méndez**

Nombre del profe/fa: ing.

**Nombre Materia: estatica para la
arquitectura**

Actividad: tencion de cuerdas

Grado: 3°

Grupo: Arquitectura

$$1000 \text{ N}$$

$$F_1 = 0$$

(1)

$$T_1 \cos 35^\circ + T_2 \cos 53^\circ$$

$$T_1 \cos 35^\circ + T_2 \cos 53^\circ$$

$$T_1 \cos 35^\circ + T_2 \cos 53^\circ$$

$$T_1 \cos 35^\circ + T_2 \cos 53^\circ$$

$$T_1 \cos 35^\circ + T_2 \cos 53^\circ$$

$$0.819$$

$$T_1 = (1000)(0.77)$$

$$T_1 = 770 \text{ N}$$

$$T_2 = 0.777$$

$$F_1 = 0$$

$$T_1 \cos 35^\circ + T_2 \cos 53^\circ$$

$$T_1 \cos 35^\circ + T_2 \cos 53^\circ = 19420 \text{ N}$$

$$T_1 \cos 35^\circ + T_2 \cos 53^\circ = 19420 \text{ N}$$

$$(T_1 \cos 35^\circ) + (T_2 \cos 53^\circ) = 19420 \text{ N}$$

$$T_1 \cos 35^\circ + T_2 \cos 53^\circ = 19420 \text{ N}$$

$$T_1 = \frac{19420}{\cos 35^\circ}$$

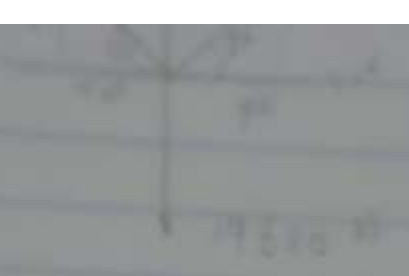
$$T_1 = 16108.37 \text{ N}$$

$$T_2 = 16108.37 \text{ N}$$

Handwritten notes at the top of the page, possibly including a title or initial calculations.

Handwritten mathematical derivations or calculations, including several lines of text and a small fraction.

Handwritten text at the bottom of the page, possibly a final result or conclusion.



1. $T_{on} = 1000 \text{ N}$

1. $T_{on} =$

1000 N

$(T_1 = 0$

$T_2 = 1000 \text{ N}$

$T_1 = 1000 \text{ N}$

$T_1 \cos 35^\circ + T_2 \cos 25^\circ$

$T_1 \sin 35^\circ + T_2 \sin 25^\circ$

$T_1 = 1000 \text{ N}$

0.819

$$T_1 = \frac{1000 \text{ N}}{0.819}$$

$$T_1 = 1207.57 \text{ N}$$

$$T_2 = 1000 \text{ N}$$

$(T_1 = 0$

$T_2 = 1000 \text{ N}$

$T_1 \cos 35^\circ + T_2 \cos 25^\circ = 1000 \text{ N}$

$T_1 \sin 35^\circ + T_2 \sin 25^\circ = 1000 \text{ N}$

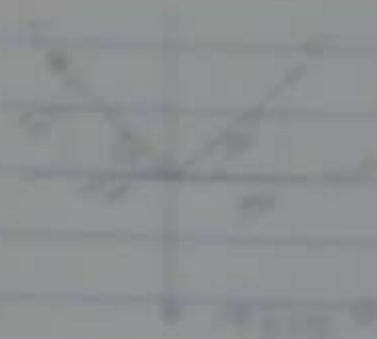
$$(T_1 \cos 35^\circ) + (1000 \cos 25^\circ) = 1000 \text{ N}$$

$$T_1 \cos 35^\circ + 906.31 = 1000 \text{ N}$$

$$T_1 \cos 35^\circ = 93.69$$

$$T_1 = 16.16 \text{ N}$$

$$T_2 = 16.16 \text{ N}$$



$$1. \text{ } \rho_{\text{air}} = 1.225 \text{ kg/m}^3$$

$$2. \text{ } \rho_{\text{air}} =$$

$$\rho_{\text{air}} =$$

$$\rho_{\text{air}} =$$

$$T_1 = 293 \text{ K}$$

$$2. \text{ } (293 \text{ K}) (1.225 \text{ kg/m}^3)$$

$$T_2 = 293 \text{ K}$$

$$\rho_1 = 1.225 \text{ kg/m}^3$$

$$\rho_2 = 1.225 \text{ kg/m}^3$$

$$T_1 = 293 \text{ K} = T_2 = 293 \text{ K}$$

$$T_1 = 293 \text{ K} = T_2 = 293 \text{ K}$$

$$T_1 = 293 \text{ K}$$

$$T_2 = 293 \text{ K}$$

$$T_1 = 293 \text{ K} (1.225 \text{ kg/m}^3)$$

$$= 358.525 \text{ kg/m}^3$$

$$T_2 = 293 \text{ K}$$

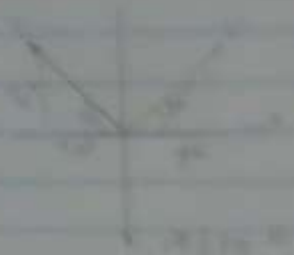
$$T_1 = 293 \text{ K}$$

$$\rho_1 = 1.225 \text{ kg/m}^3$$

$$T_1 = 293 \text{ K} = T_2 = 293 \text{ K}$$

$$\rho_1 = 1.225 \text{ kg/m}^3$$

$$(1.225 \text{ kg/m}^3) (1.225 \text{ kg/m}^3) = 1.500625 \text{ kg}^2/\text{m}^6$$



1. Top = 1000 mm
2. Bottom = 1000 mm

Area = $\frac{1}{2} (a+b)h$
= $\frac{1}{2} (1000+1000) \times 1000$
= 10,00,000 mm²

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= $\frac{1}{2} (1000+1000) \times 1000$
= 10,00,000 mm²

Area = $\frac{1}{2} (a+b)h$

= $\frac{1}{2} (1000+1000) \times 1000$

= $\frac{1}{2} \times 2000 \times 1000$

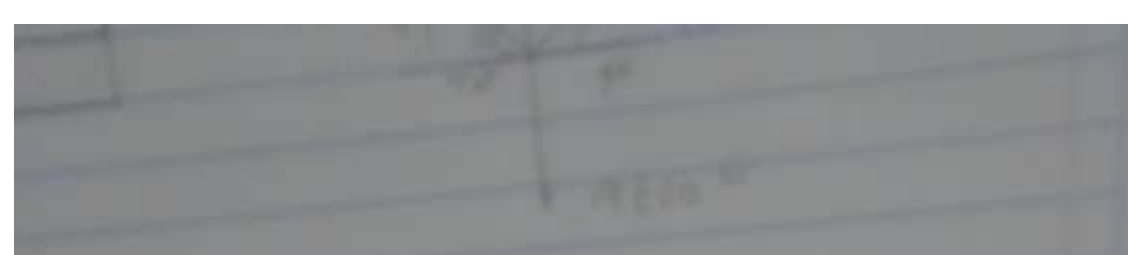
= 1000×1000

= $10,00,000$ mm²

= 10 m²

Area = $\frac{1}{2} (a+b)h$

= $\frac{1}{2} (1000+1000) \times 1000$



1. $1000 = 1000 \text{ kg}$
 2. $1000 = 1000 \text{ kg}$

3. $1000 = 1000 \text{ kg}$
 4. $1000 = 1000 \text{ kg}$

$T_1 = 0$
 $T_2 = 0$
 $T_3 = 0$
 $T_4 = 0$
 $T_5 = 0$

$T_1 = 1000 \text{ kg}$
 $T_2 = 1000 \text{ kg}$
 $T_3 = 1000 \text{ kg}$
 $T_4 = 1000 \text{ kg}$
 $T_5 = 1000 \text{ kg}$

$T_1 = 0$
 $T_2 = 1000 \text{ kg}$
 $T_3 = 1000 \text{ kg}$
 $T_4 = 1000 \text{ kg}$
 $T_5 = 1000 \text{ kg}$
 $T_6 = 1000 \text{ kg}$
 $T_7 = 1000 \text{ kg}$
 $T_8 = 1000 \text{ kg}$
 $T_9 = 1000 \text{ kg}$
 $T_{10} = 1000 \text{ kg}$