

UDS

ALUMNO

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DOCENTE

ING. ABEL ESTRADA DICHÍ

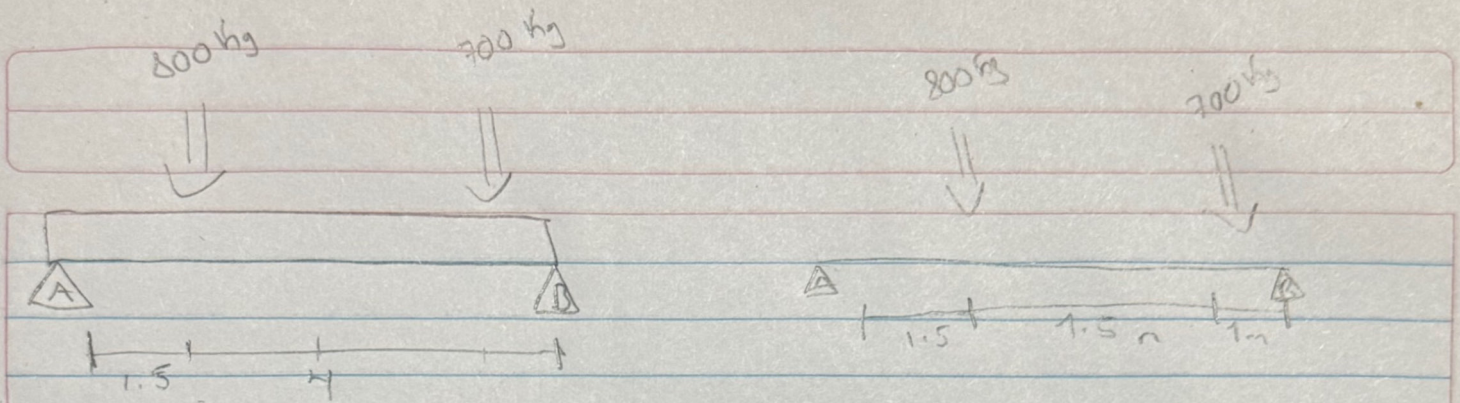
TRABAJO

EQUILIBRIO

MATERIA

ESTÁTICA

 **2025**



$$800 \times 9.81 = 7848 \text{ N}$$

$$700 \times 9.81 = 6867 \text{ N}$$

$$\sum M_A = 0$$

$$-7848 \text{ N} (1.5 \text{ m}) - 6867 \text{ N} (3 \text{ m}) + B_y (4 \text{ m}) = 0$$

$$-11772 \text{ Nm} - 20601 \text{ Nm} + B_y (4 \text{ m}) = 0$$

$$B_y (4 \text{ m}) = 32373 \text{ Nm}$$

$$B_y = \frac{32373 \text{ Nm}}{4 \text{ m}}$$

$$B_y = 8093.25 \text{ N}$$

$$A_y + D_y - 7848 \text{ N} - 6867 \text{ N} = 0$$

$$A_y + D_y = 14715 \text{ N}$$

$$A_y + 8093.25 \text{ N} = 14715 \text{ N}$$

$$A_y = 14715 \text{ N} - 8093.25 \text{ N}$$

$$A_y = 6621.75 \text{ N}$$