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Grupo: Arquitectura

Comitán de Domínguez, Chiapas

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$$P = \frac{W \cdot L}{2}$$

0.32 t/m

A △ —————— △ B

- 0.96 ton

A ├─── 3m ───┤ D
├───── 6m ─────┤

$$-\frac{0.32 \times 6m}{2} =$$

$$\Sigma M = \left[-0.96(3m)\right] + \left[B(6m)\right] = 0$$

$$\Sigma M = -2.88 + B \cdot 6m = 0$$
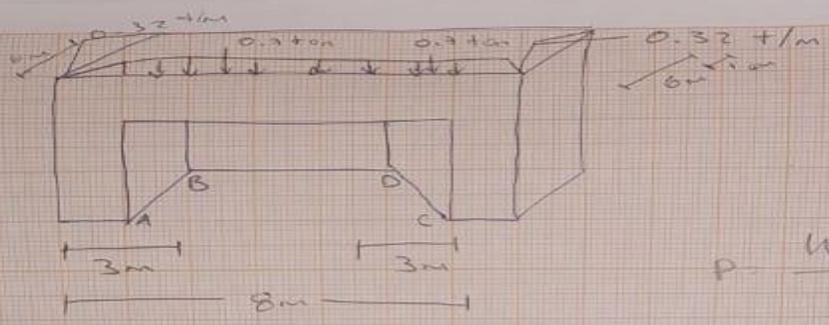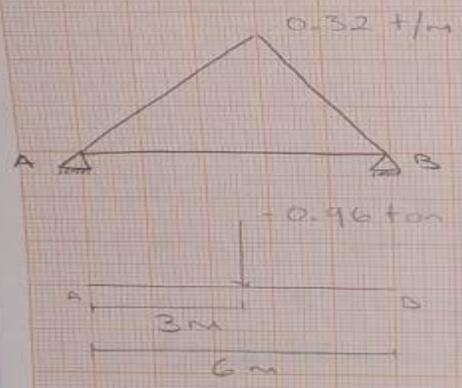
$$\Sigma M = -2.88 / 6m \cdot B = 0$$

$$B = +.48 \text{ ton} \rightarrow B = 0.48 \text{ ton}$$

$$\Sigma F_y = (-.96 + 0.48)$$

$$A = -0.48 \text{ ton} \downarrow$$

$$\Sigma M = \left[-0.96 \text{ ton}(3m)\right] + \left[-1.10 \text{ ton}(5)\right]$$
$$+ \left[D(6m)\right] = 0$$

$$\Sigma M = -8.38 \text{ ton} + D \cdot 6m = 0$$

$$\Sigma M = -8.38 \text{ ton} / 6m \quad D = 0$$

$$\Sigma M = -1.39 \text{ ton} \downarrow \rightarrow D = 1.39 \text{ ton}$$

-1.10 ton

C ├── 3m ──┤ -.96m -1.10 ton ┤ D
├──── 5m ────┤
├────── 6m ──────┤
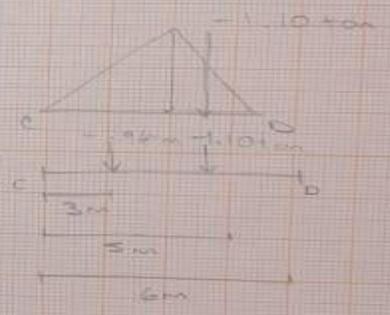
$$\Sigma F_y = -.96 - 1.10 + 1.39$$

$$C = -.67$$

$$C = 0.67 \text{ ton} \downarrow$$
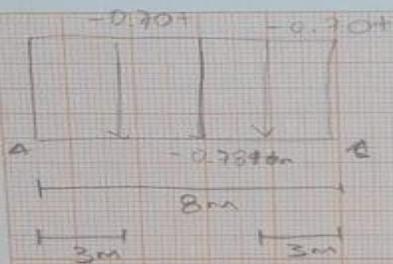
$$0.78 \ (8m) = 6.24 \ \text{ton}$$

$$Up = \ 8/2 \ = \ 4$$

$$\xi M = \left[-0.70 + (3m)\right] + \left[-6.24 + (4m)\right] +$$

$$\left[-0.70 + (5m)\right] + \left[c \ (8m)\right] = 0$$

$$\xi M = -\frac{30.56+}{8m} \ c \ = 0$$

$$\xi M = -3.82 \ c = 0 \ \longrightarrow \ \underline{c = 3.82 \ \text{ton}} \ /$$

$$A: -0.70 - 6.24 - 0.70 + 3.82 = 0$$

$$A = -7.64 \ + \ 3.82 = 0$$

$$A = -3.82 = 0$$

$$\underline{A = 3.82 \ \text{ton}} \ /$$

3.82
3.82
→ 0.48
0.48
0.67
1.39

$$\sum T_i = 9.7 \text{ ton}$$