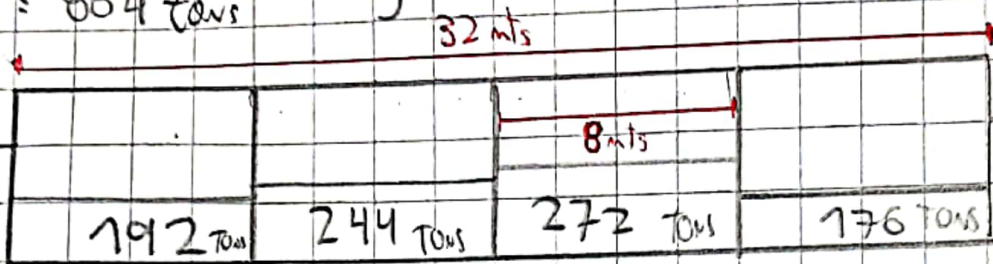


Certamen 6: Pregunta 1

FECHA: / /

Esloza: 32 mts
 Δ liviano: 352 toneladas
 CARGA: 884 tons

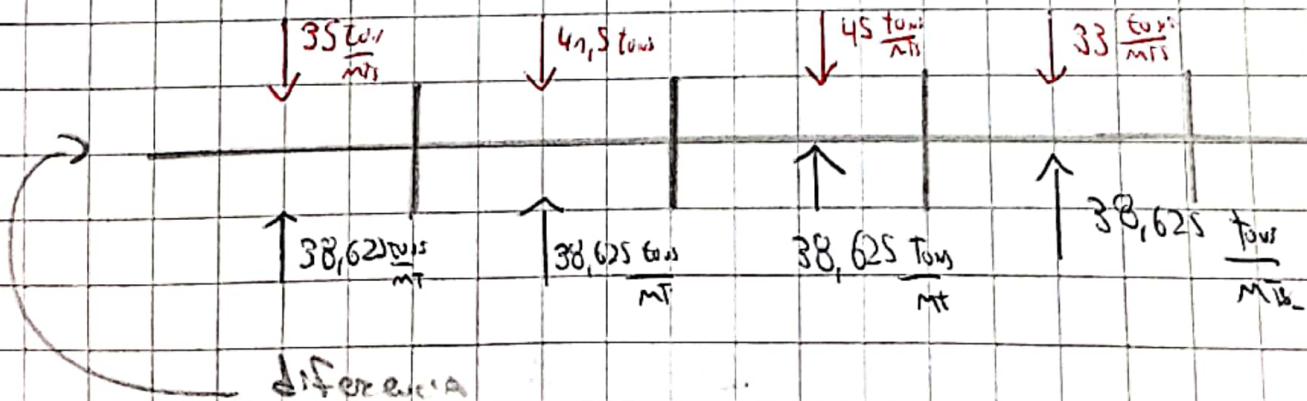


$$\therefore \frac{352 \text{ tons}}{32 \text{ mts}} = 11 \text{ (TON/MTS)} \text{ (esfuerzo buque liviano)}$$

$$\therefore \frac{(352+884)}{32} = 38,625 \text{ (tons/mts)}$$

$$\therefore \frac{\text{Esloza}}{\text{No Secciones}} = \frac{32 \text{ mts}}{4} = 8 \text{ mts}$$

- $192 : 8 = 24 + 11 = 35 \text{ ton/mts}$
- $244 : 8 = 30,5 + 11 = 41,5 \text{ ton/mts}$
- $272 : 8 = 34 + 11 = 45 \text{ ton/mts}$
- $176 : 8 = 22 + 11 = 33 \text{ ton/mts}$



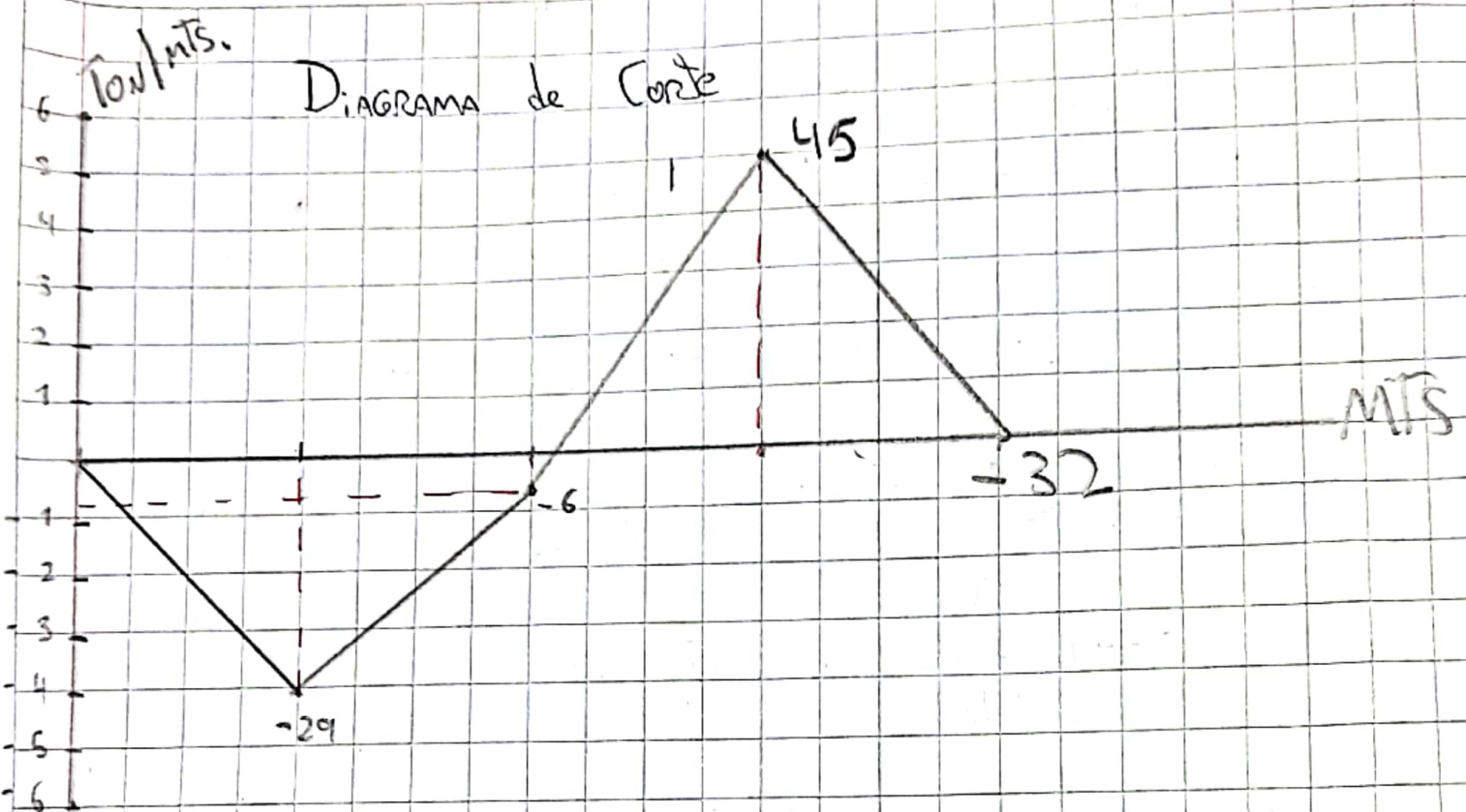
diferencia

-3,625	2,875	6,375	-5,625
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(TON/M)

© RHEIN

mts	0	8	16	24	32	(bucle)
Tons/mts	0	-29	-6	+45	0	FECHA: / /

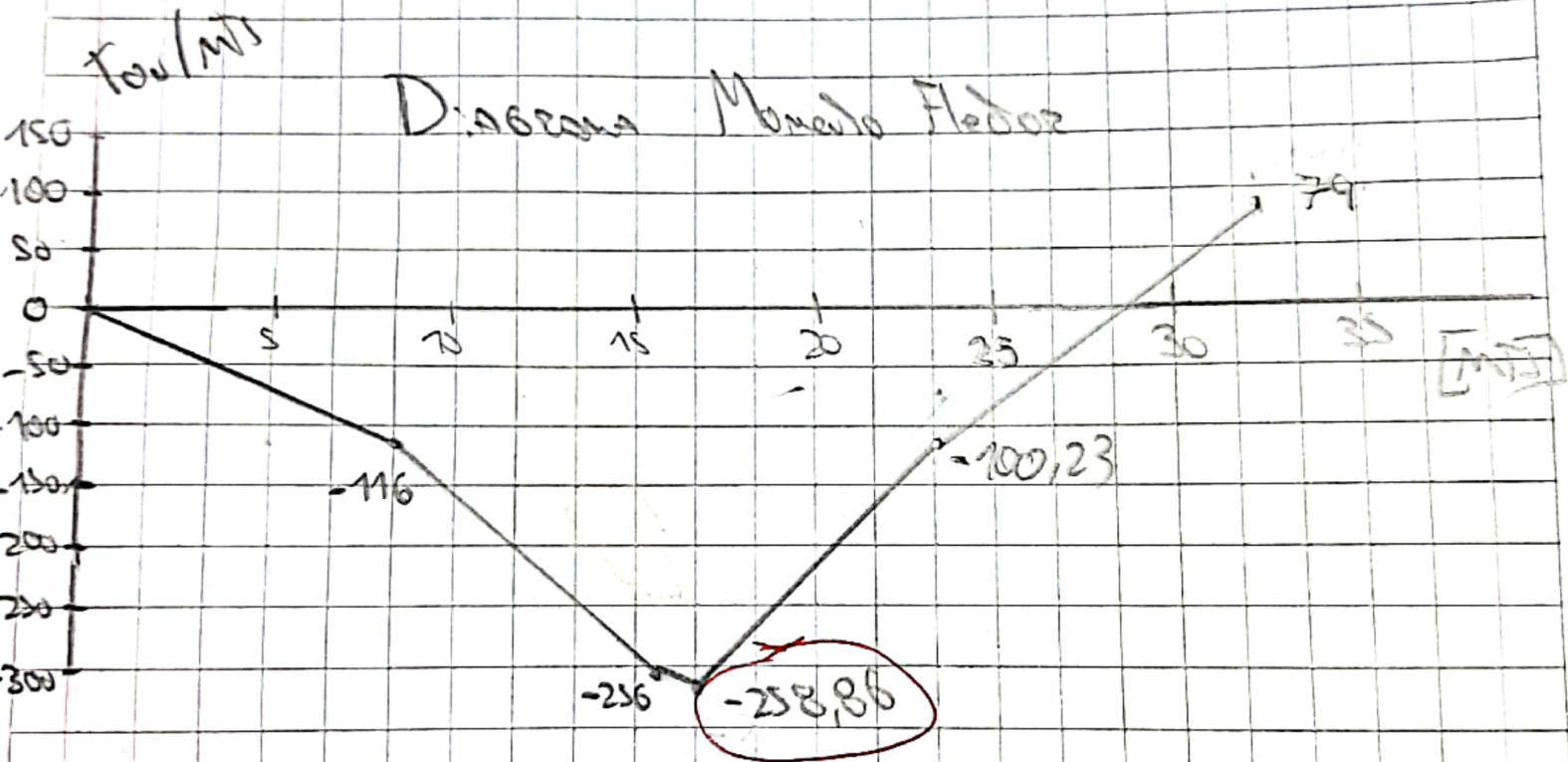


$$AT = \left| \underbrace{\left(\frac{29 \cdot 8}{2} \right)}_{A_1} + \underbrace{\left(\frac{(29-6) \cdot 8}{2} \right)}_{A_2} + \underbrace{(6 \cdot 8)}_{A_3} + \underbrace{\left(\frac{6 \cdot 0,95 \cdot 30}{2} \right)}_{A_4} \right|$$

$$AT = |258,85| (\text{ton} / \text{mts})$$

↳ Máximo momento flector

MTS	0	8	16	16,95	24	32
T_{ou}/N	0	-116	-256	-258,85	-100,23	+79



Respuestas:

- Posición máxima momento flector: 16,95 mts
- Magnitud máxima momento flector: $|-258,85|$ [Tou/MT]
- Esfuerzo del acero: APROX