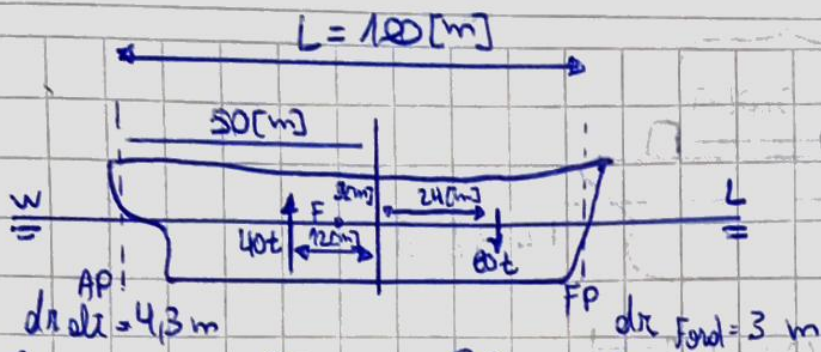




① $\text{Carga} = \frac{80}{\text{TPC}} = \frac{80}{10} = 8\text{ cm}$

$\text{Asiento} = \frac{80(\text{T}) \times 27\text{ [m]}}{120\text{ [T-m]}} = 18$

$\text{Cambio calado popa} = \frac{l}{L} \cdot \text{Cambio asiento} = \frac{47\text{ [m]}}{100\text{ [m]}} \cdot 18 = 8,46\text{ [cm]}$

$\text{Cambio calado proa} = \frac{53\text{ [m]}}{100\text{ [m]}} \cdot 18 = 9,54\text{ [cm]}$

② $\text{Descarga} = \frac{40}{10} = 4\text{ [cm]}$

$\text{Asiento} = \frac{40\text{ [T]} \times 9\text{ [m]}}{120\text{ [T-m]}} = 3$

$\text{Cambio calado popa} = \frac{47\text{ [m]}}{100\text{ [m]}} \cdot 3 = 1,41\text{ [cm]}$

$\text{Cambio calado proa} = \frac{53\text{ [m]}}{100\text{ [m]}} \cdot 3 = 1,59\text{ [cm]}$

Final

$\text{Calado popa} = 4,3\text{ [m]} - 0,0846\text{ [m]} - 0,0141\text{ [m]} - 0,04\text{ [m]} + 0,08\text{ [m]} = 4,24\text{ [m]}$

$\text{Calado proa} = 3\text{ [m]} + 0,0954\text{ [m]} + 0,0159\text{ [m]} + 0,04\text{ [m]} + 0,08\text{ [m]} = 3,1513\text{ [m]}$

$\text{Calado popa} = 4,24\text{ [m]} \quad | \quad \text{Calado proa} = 3,1513\text{ [m]} \quad | \quad \text{[m]}$