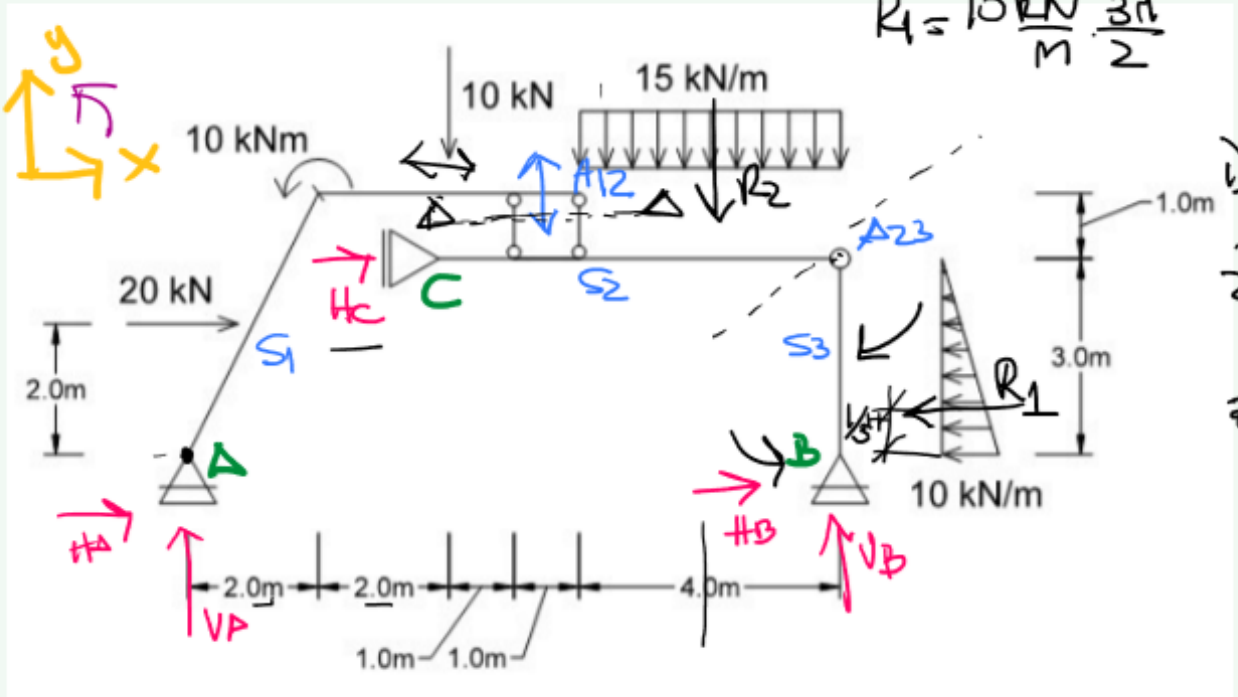
CLASE 05/05/21

jueves, 6 de mayo de 2021 12:13 p. m.

$R_2 = 15\frac{kN}{m} \cdot 4m$

$R_1 = 10\frac{kN}{m}\cdot\frac{3m}{2}$



1) Grados de libertad y Condición cinemática
2) Análisis cinemático (→ Polos)
3) Resuelvo

1) $\sum F_x = 20kN + H_A + H_C + H_B - 10\frac{kN}{m}\cdot\frac{3m}{2} = 0$

2) $\sum F_y = V_A - 10kN - 15\frac{kN}{m}\cdot 4m + V_B = 0$

3) $\sum M_A = -20kN\cdot 2m + 10kN\cdot m - 10kN\cdot 4m - H_C\cdot 3m - R_2\cdot 8m + R_1\frac{1}{3}\cdot 3m + V_B\cdot 10m = 0$

3 ec. / Sin cortar → Ec. Equilibrio Relativo

4) $\sum M^{A23}_{S_3} = -R_1\cdot\frac{2}{3}3m + H_B\cdot 3m = 0$

5) $\sum^{A12} F_x = H_A + 20kN = 0$

5) → H_A
4) → H_B
} ① → H_C ③ → V_B ② → V_A