S T Q Q S S D

12/03/18

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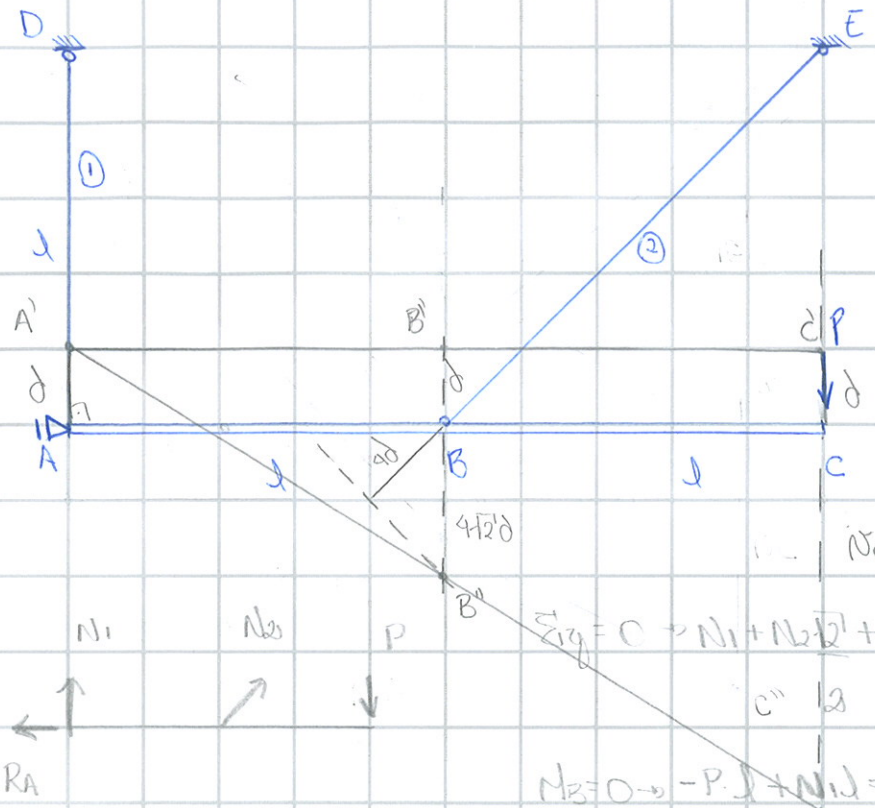
Exercício: deslocamento de C

EA = cte



$\Sigma F_y = 0 \rightarrow N_1 + N_2\frac{\sqrt{2}}{2} + P = 0$

$N_2 = 0 \rightarrow -P \cdot d + N_1 d = 0 \rightarrow N_1 = P$

$N_2\frac{\sqrt{2}}{2} = -2P \rightarrow N_2 = -2\sqrt{2}P$

$\Delta d_1 = \frac{N_1 d_1}{EA} = \frac{Pd}{EA} = d$

$\Delta d_2 = \frac{N_2 d_2}{EA} = \frac{2\sqrt{2}P \cdot \sqrt{2}d}{EA} = \frac{4Pd}{EA} = 4d$

$N_C + d = 2(4+\sqrt{2}d + d)$

$N_C = 8+\sqrt{2}d + d$

$\therefore N_C = d(8+\sqrt{2}+1)$

e $u_C = 0$