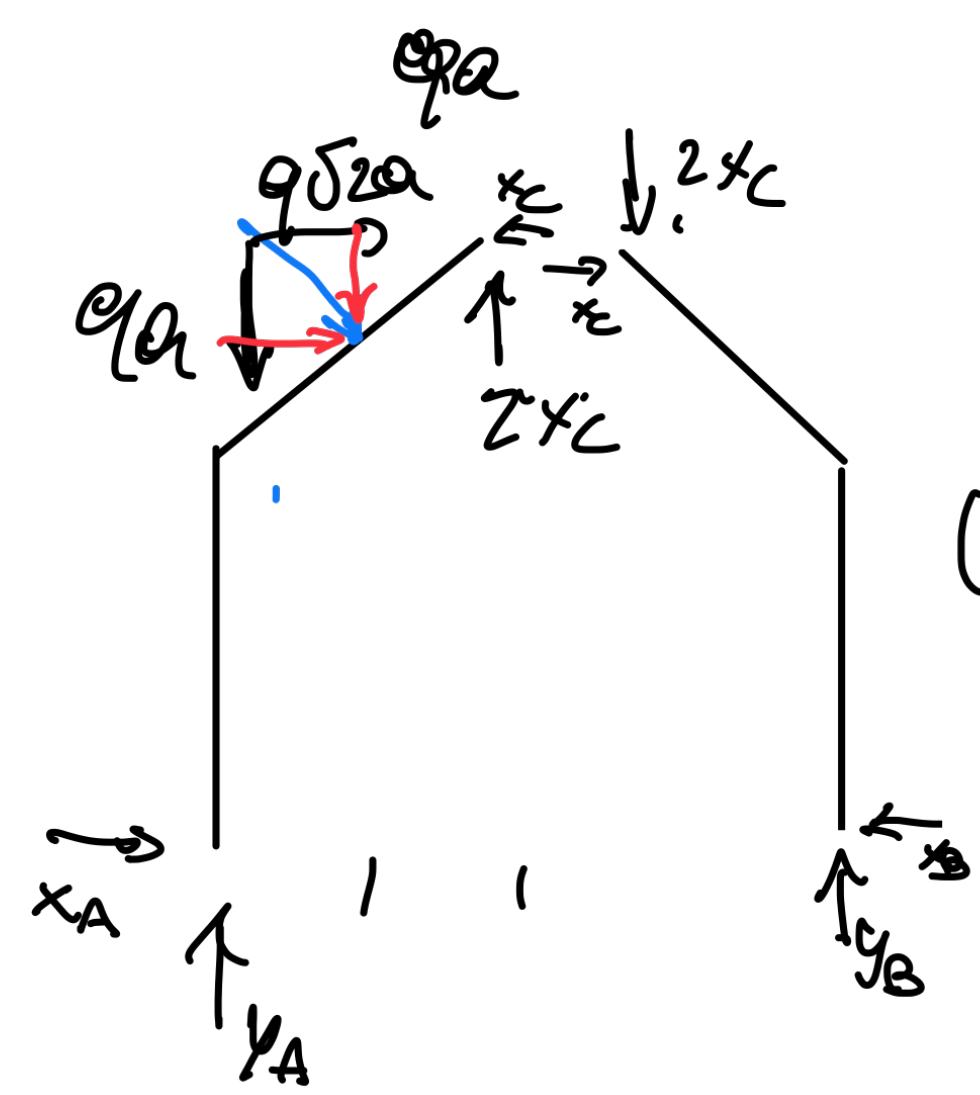


$$a=b$$

$$h=2b$$



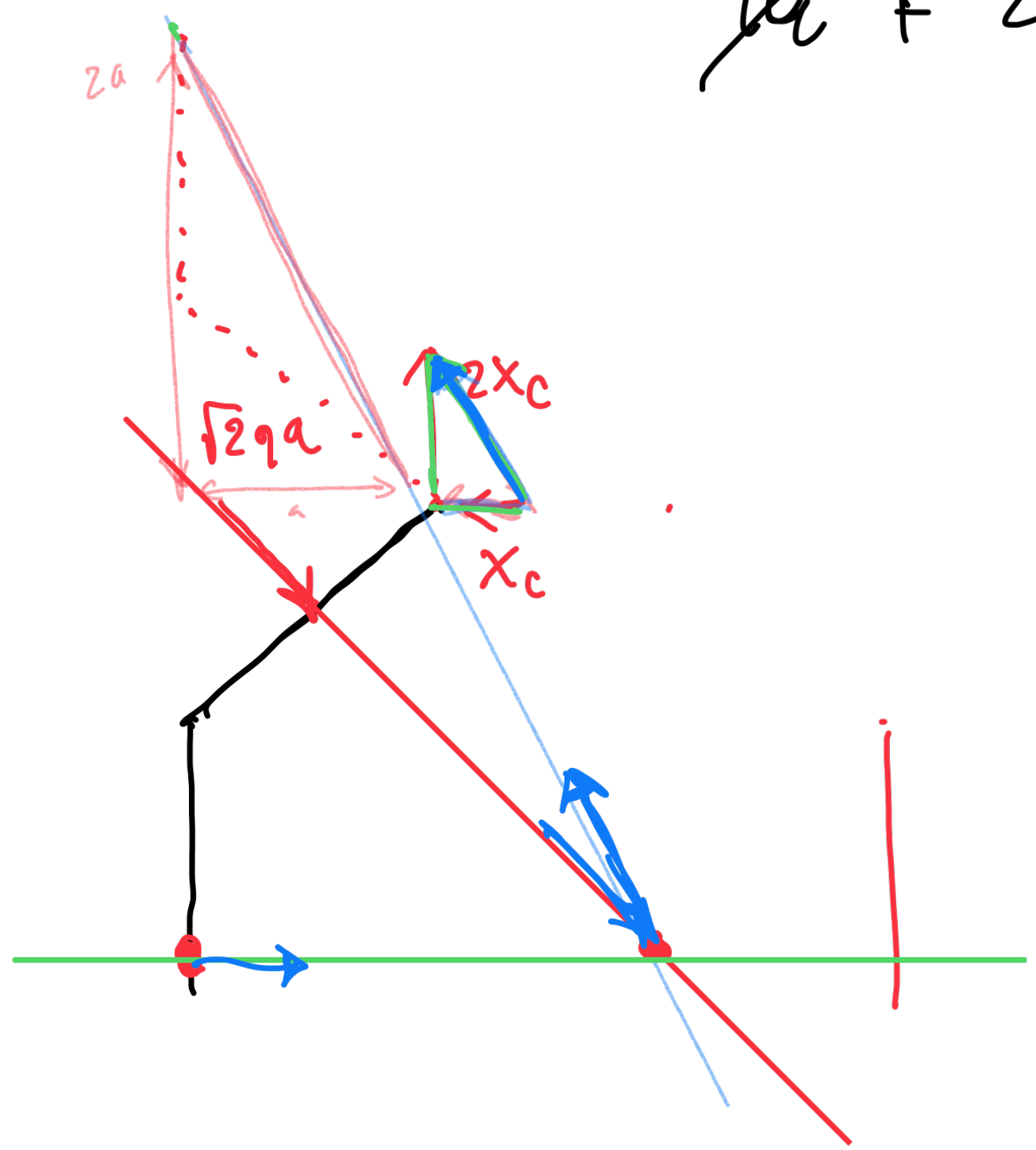
$$\begin{cases} \sum F_y = 0 & y_A + 2x_C - qa = 0 \\ & x_A - x_C + qa = 0 \\ \sum M_C = 0 & qa^2 + \frac{qa^2}{2} + x_A 2a - y_A a = 0 \end{cases}$$

$$y_C = 2x_C$$

$$\begin{cases} x_A = x_C - qa \\ y_A = -2x_C + qa \\ qa^2 + 2a(x_C - qa) - a(-2x_C + qa) = 0 \end{cases}$$

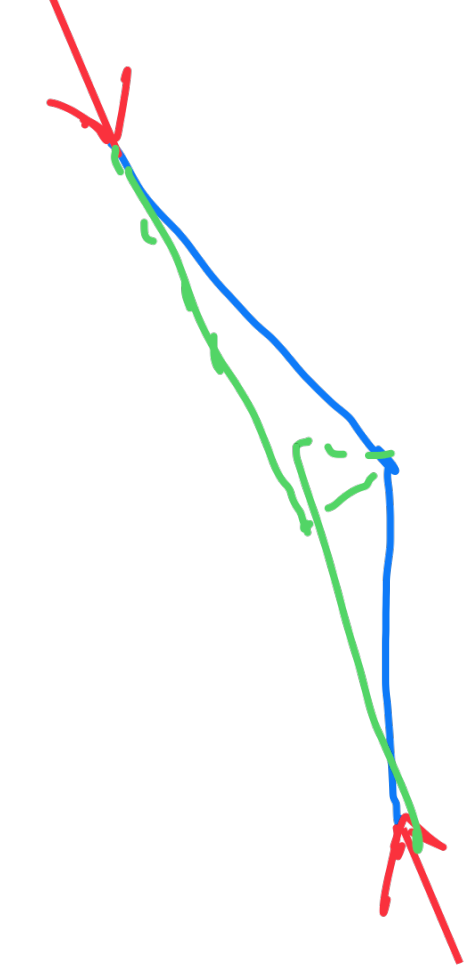
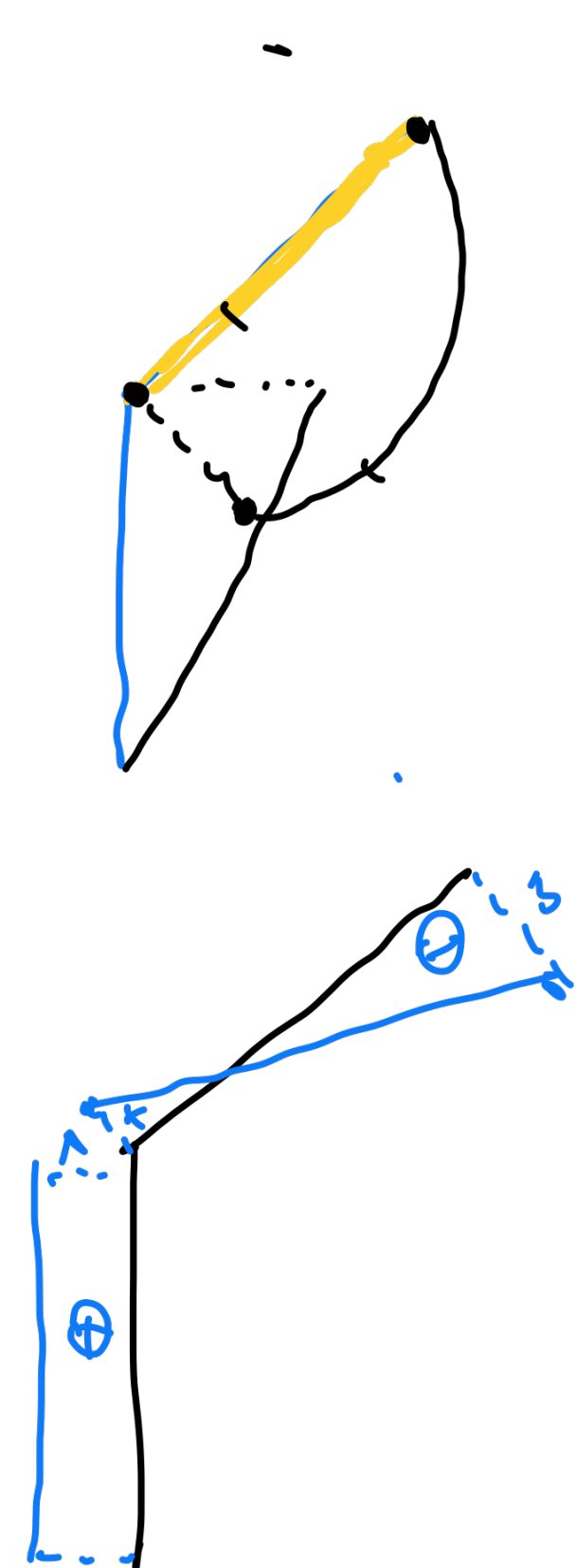
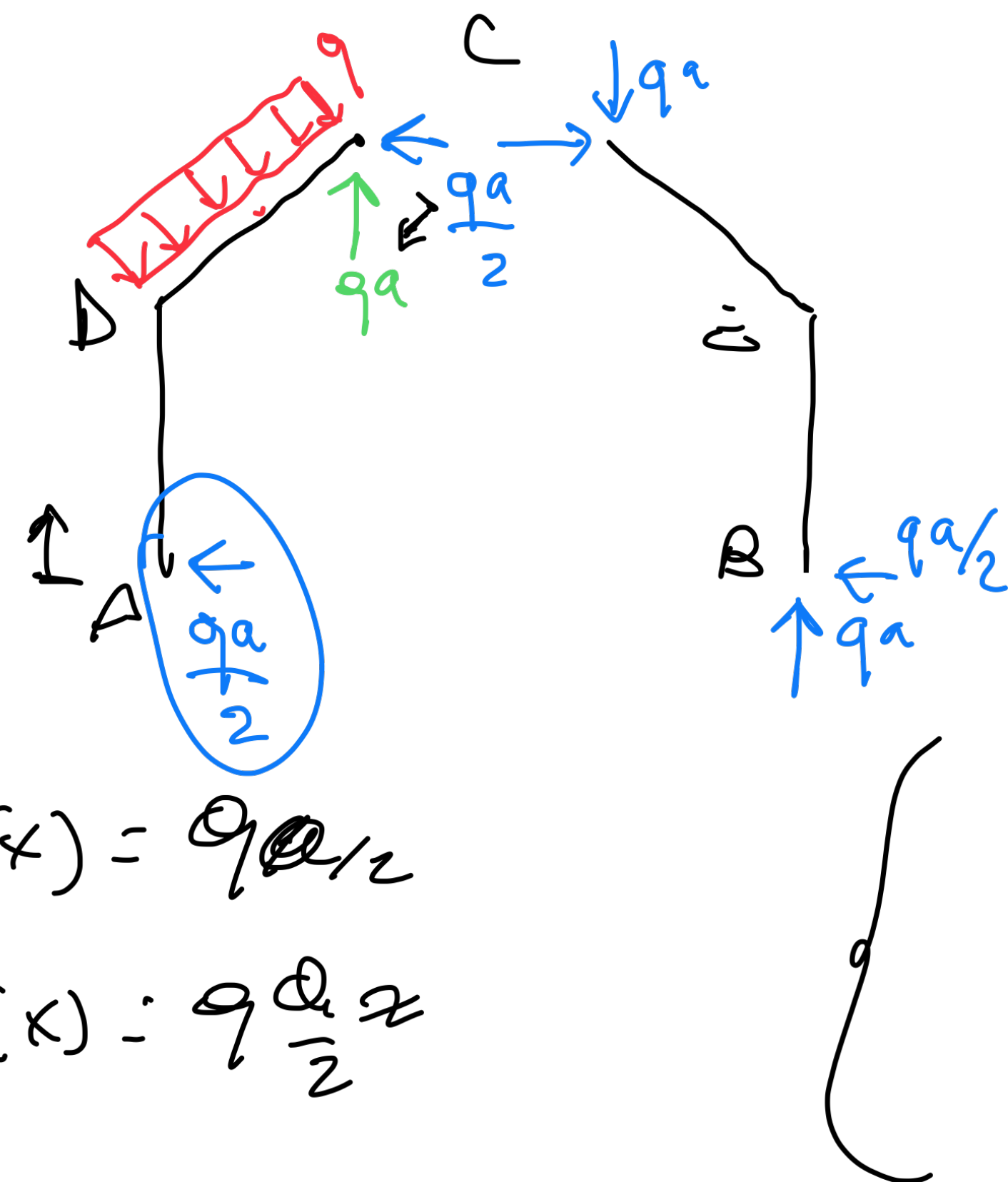
$$qa^2 + 2ax_C - 2qa^2 + 2x_C a - qa^2 = 0$$

$$4x_C a = 2qa^2 \quad x_C = \frac{2qa^2}{4a} = \frac{qa}{2}$$



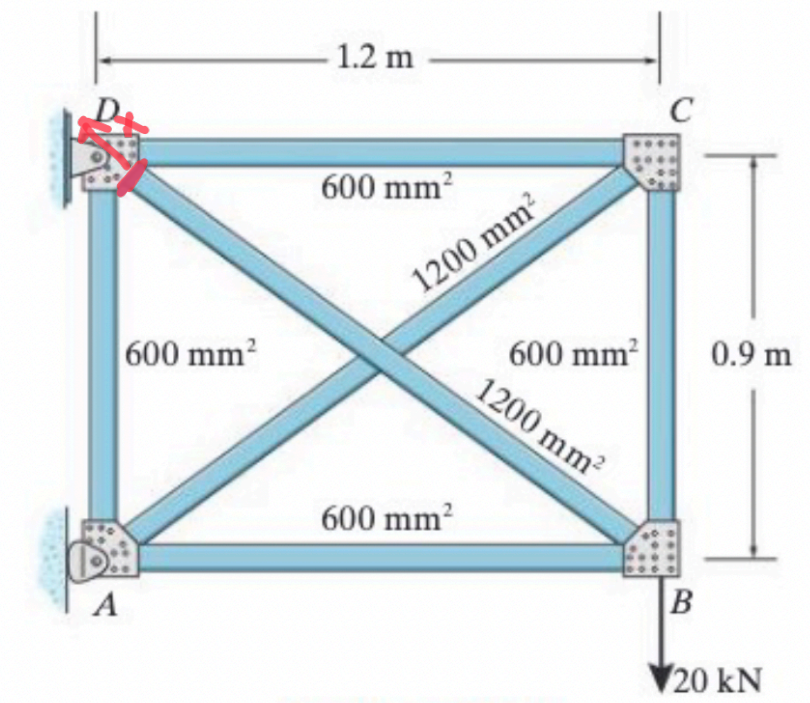
$$\begin{aligned} y_A &= 0 \\ x_A &= -\frac{qa}{2} \\ x_C &= \frac{qa}{2} \\ y_C &= qa \end{aligned}$$

$$AD \begin{cases} N(x) = qa/2 \\ M(x) = qa \frac{x}{2} \end{cases}$$

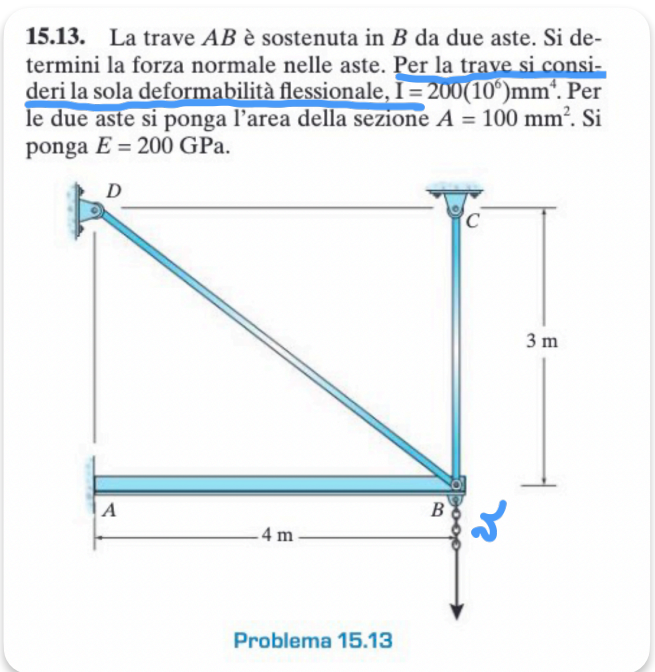
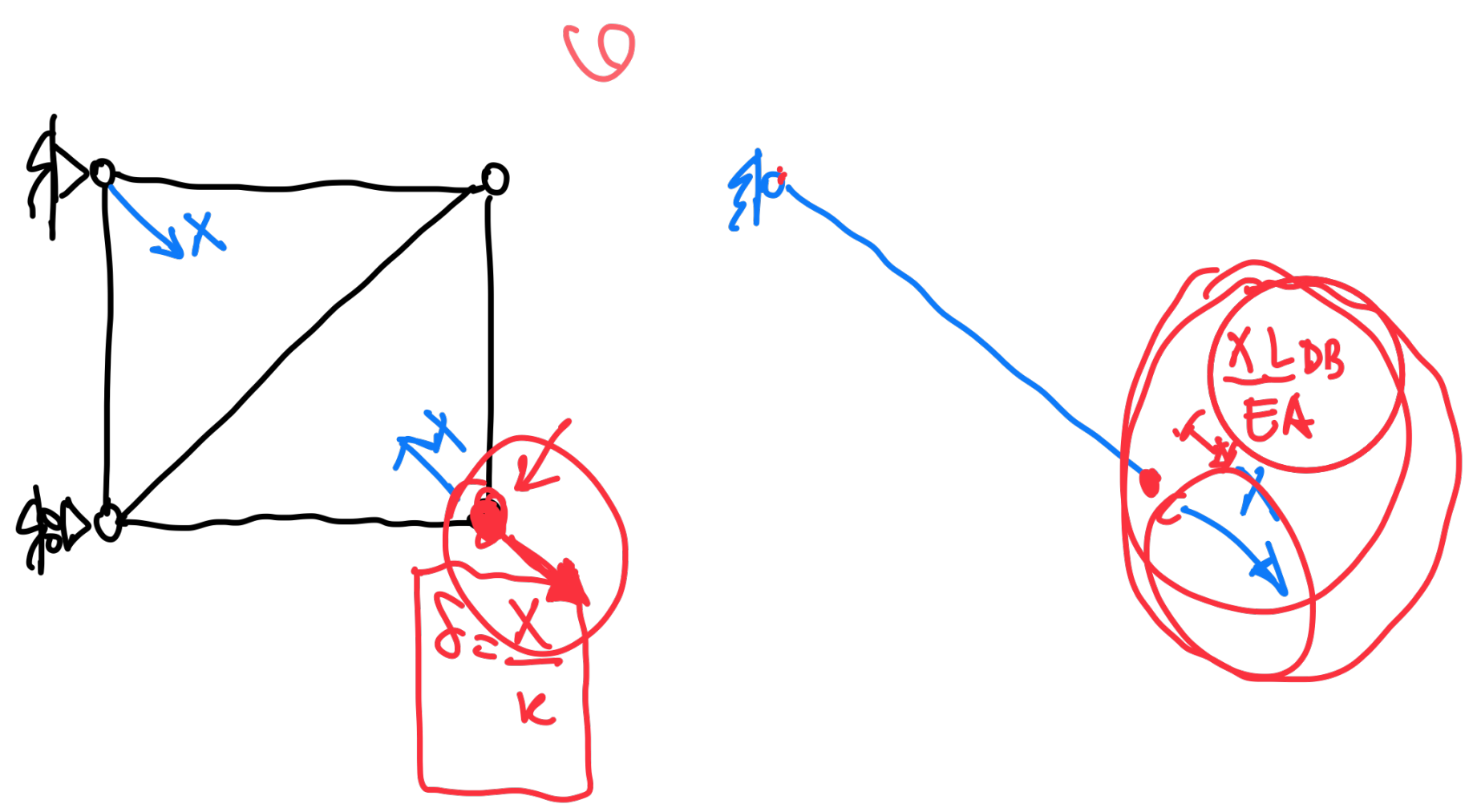


$$-\frac{qa}{2\sqrt{2}} - \frac{qa}{\sqrt{2}} = -\frac{3}{2\sqrt{2}} qa = -\frac{3}{4}\sqrt{2} qa$$

15.9. Si determinino le reazioni vincolari e la forza normale in ogni asta. L'area della sezione di ogni asta è indicata in figura. Tutte le giunzioni sono cerniere. Si ponga $E = 200 \text{ GPa}$.

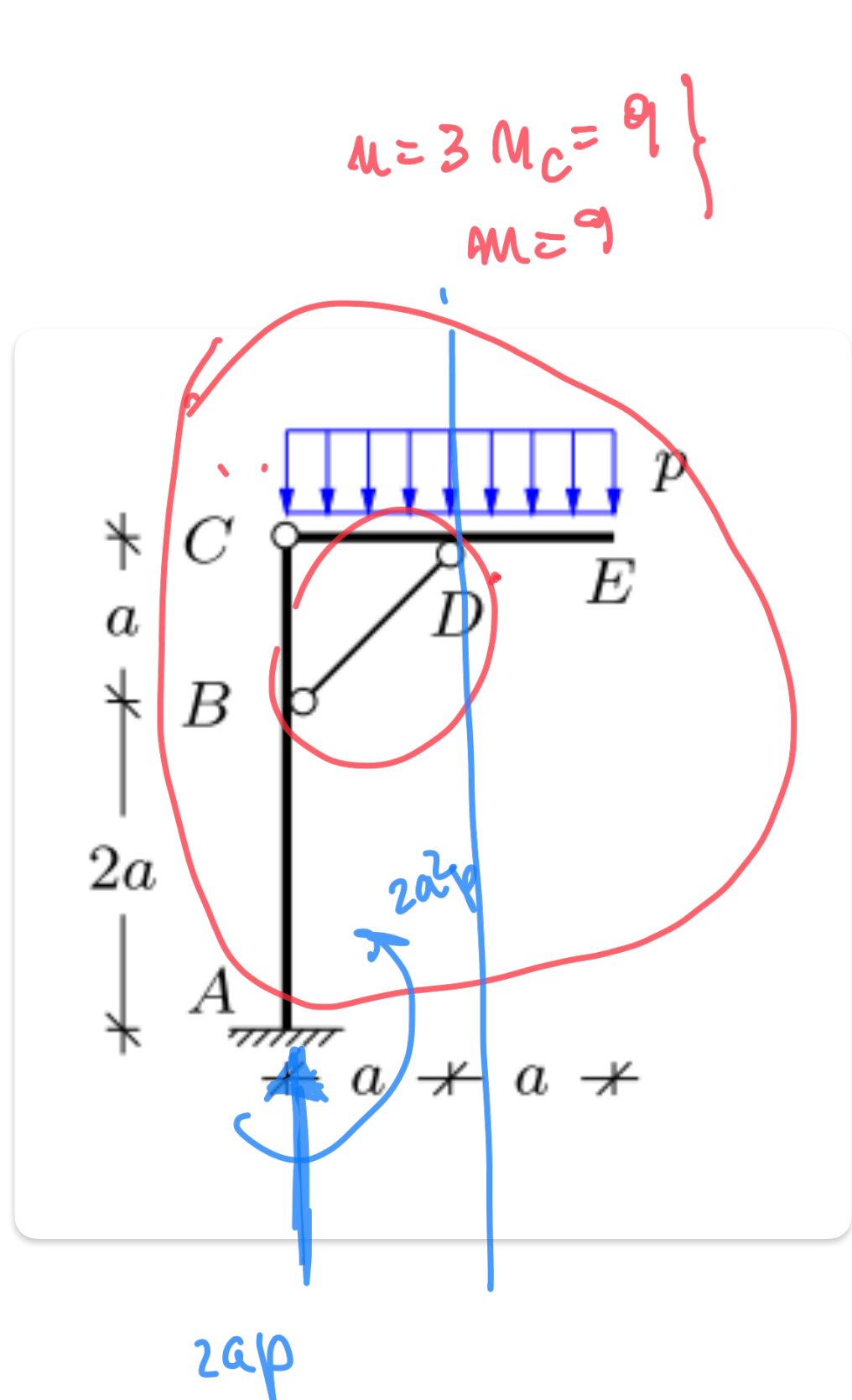


Problema 15.9



Problema 15.12

$$\begin{aligned} y &= -x \\ x + z &= p \\ r &= \frac{x}{k_1} \\ \delta &= \frac{p}{k_2} \end{aligned}$$



$$\begin{aligned} u &= w \\ l &= 0 \end{aligned} \Rightarrow \begin{cases} v = 0 \\ \Rightarrow \text{p.b. l.c.} \\ \text{altern.} \end{cases}$$

