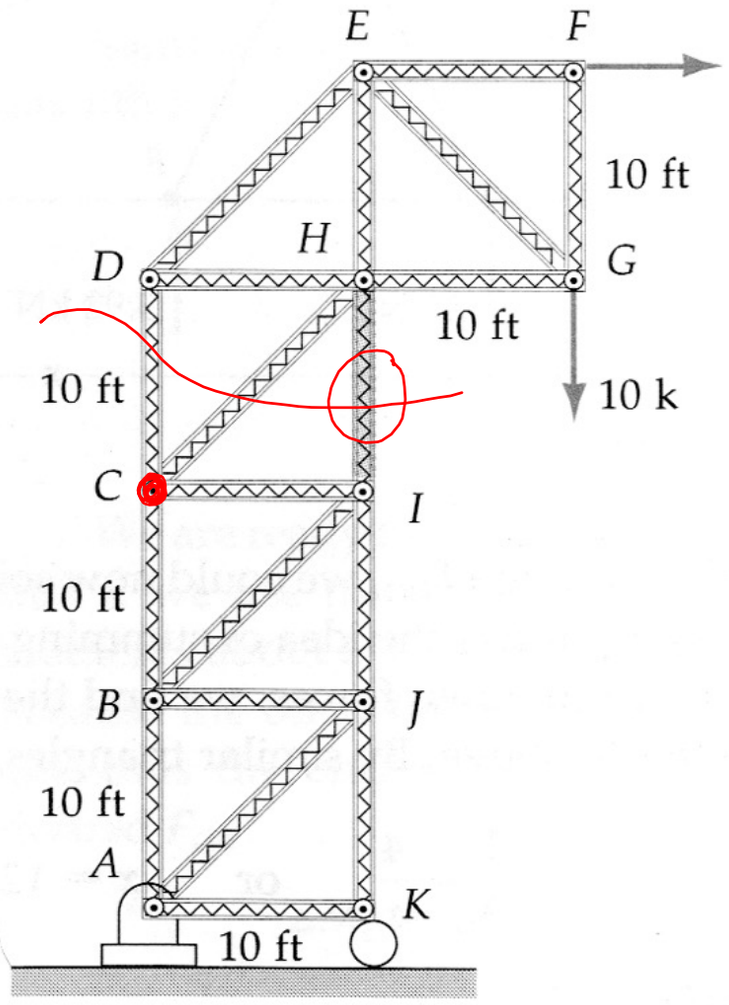
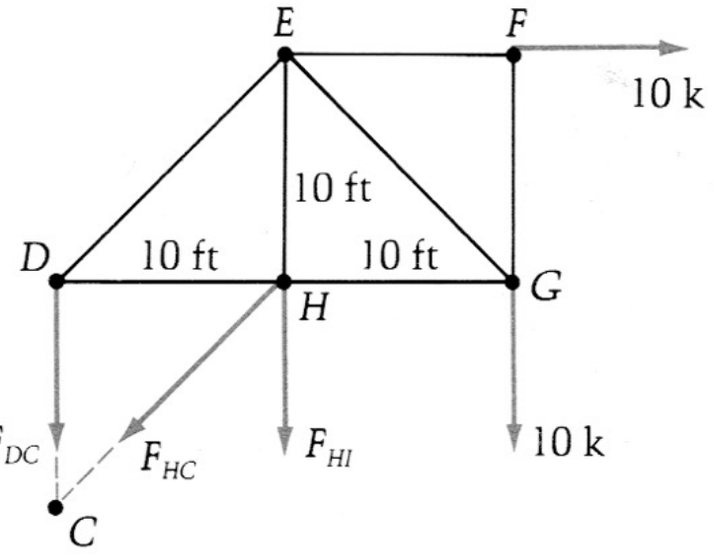


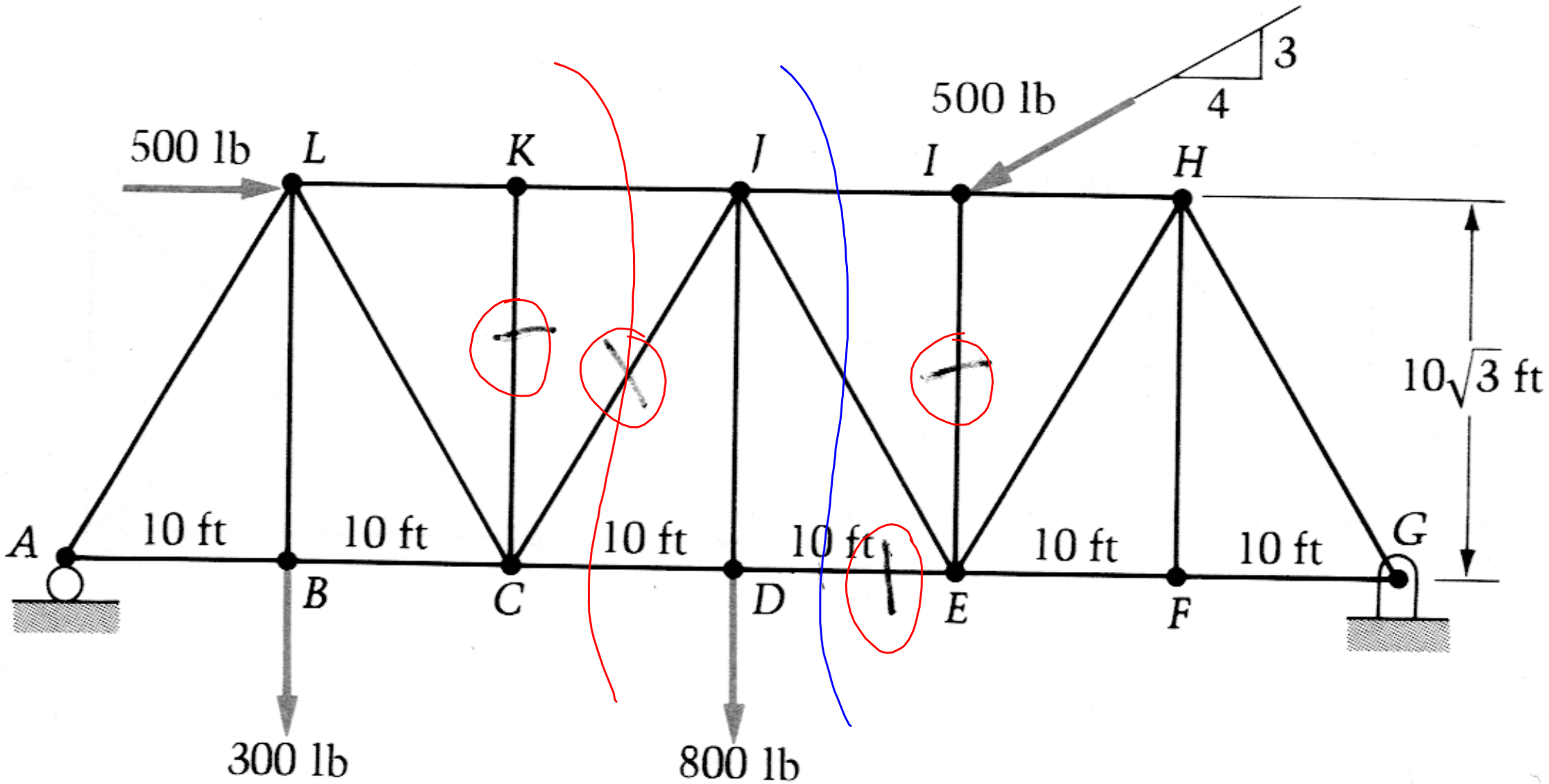
$$+\circlearrowleft \sum M_C = -F_{HI}(10) - 10(20)$$

$$-10(20) = 0$$



$$F_{HI} = -40 \text{ kips}$$

$$\therefore \text{(C)}$$



CK: zero by inspection of ΣF_y @ K

CJ: whole structure $\Rightarrow A_y$. Red cut, LHS, ΣF_y

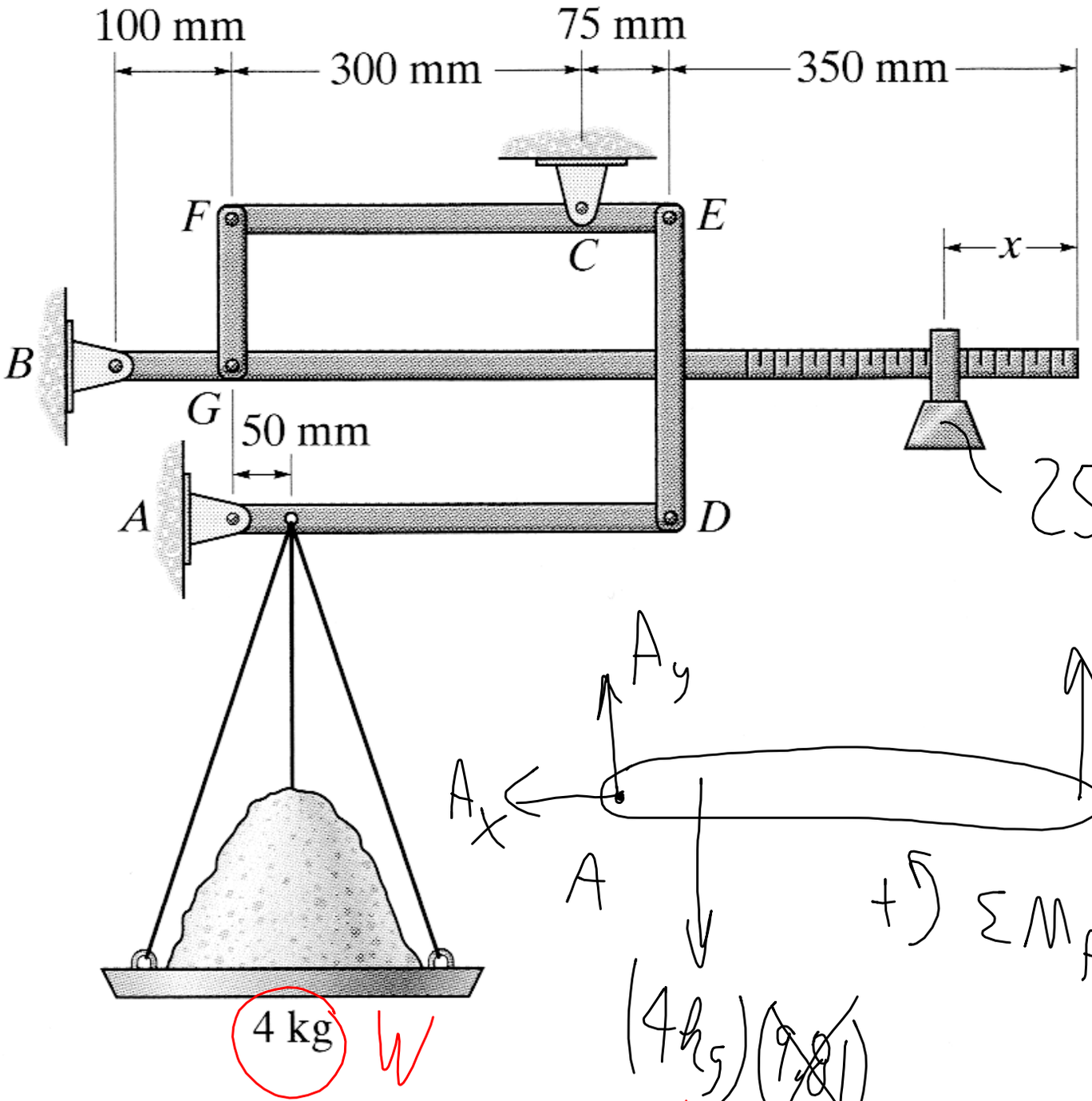
DE: Whole structure $\Rightarrow G_y$

Blue cut, RHS, ΣM_J

or

LHS, A_y, ΣM_J

IE: Pin I, ΣF_y



x = ? for equil as shown

$$+\circlearrowleft \Sigma M_A = F_{DE}(375) - 4(50) = 0$$

$$F_{DE} = 4\,\frac{50}{375}$$

$$F_{DE} = W\,\frac{}{375}$$

$(4\,kg)(9.81)$

$$F_{FG} = \frac{200}{375}\frac{75}{300}$$ 50W

$$+\circlearrowleft \sum M_B = \frac{200}{375}\frac{75}{300}(100) - .025(825 - x) = 0$$ 50W

$w(x) \Rightarrow$

$\frac{dW}{dx}$ units of $\frac{kg}{mm}$