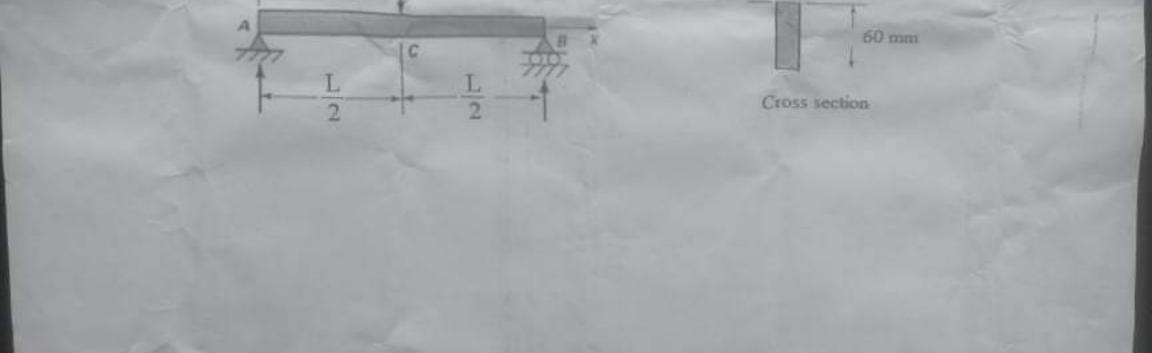


8 kN

Υk

20 mm



Q3(15P). The bar in the figure is made of AISI 1006 cold-drawn steel and is loaded by the forces. $F_1 = 500 \text{ N}$, $F_2 = 3 \text{ kN}$, and $F_3 = 1 \text{ kN}$ Compute the factor of safety, based upon the distortion energy theory, for the critical stress element of the member shown in the figure. Neglect shear stresses developed from F_2 and F_3

