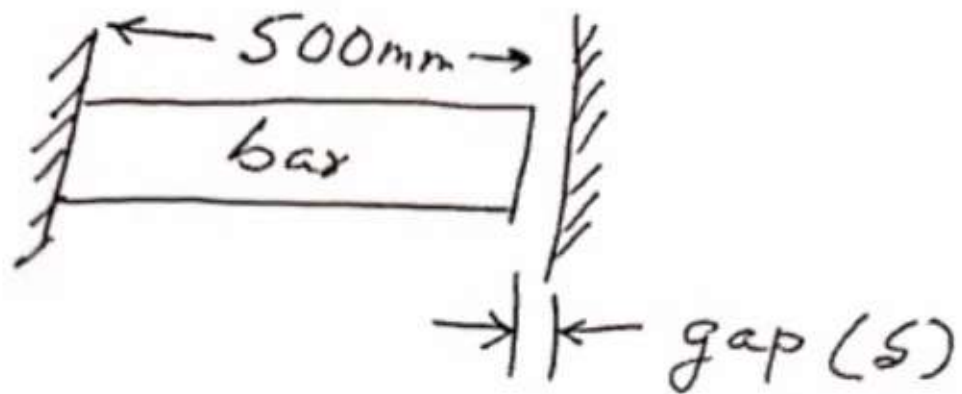


CT-2 :



If the temp. of the bar is increased to 90°C and the stress in the bar is not to exceed 75 MPa , determine the size of the gap. Initial temp. of the bar is 30°C .

Use $E = 200\text{ GPa}$ &

$$\alpha = 11.7\ \mu\text{m}/\text{m}^\circ\text{C}.$$