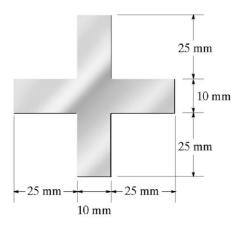
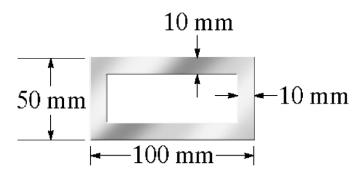
Name: Student ID: M24: Euler's Formula

1. A steel column has a length of 4 m and is pinned at both ends. If the cross sectional area has the dimensions shown, determine the critical load. E = 200 GPa.

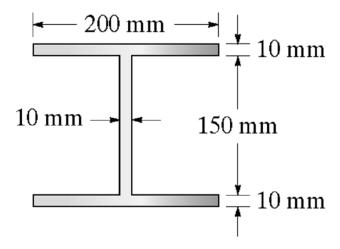


2. A steel column has a length of 5 m and is fixed at both ends. If the cross-sectional area has the dimensions shown, determine the critical load. E = 200 GPa.



Name: Student ID: M24: Euler's Formula

3. A steel column has a length of 9 m and is fixed at both ends. If the cross sectional area has the dimensions shown, determine the critical load. E = 200 GPa.



4. Determine the maximum load P the frame can support without buckling member AB. Assume that AB is made of steel and is pinned at its ends for y-y axis buckling and fixed at its ends for the x-x axis buckling. $E_{st} = 200$ GPa.

