

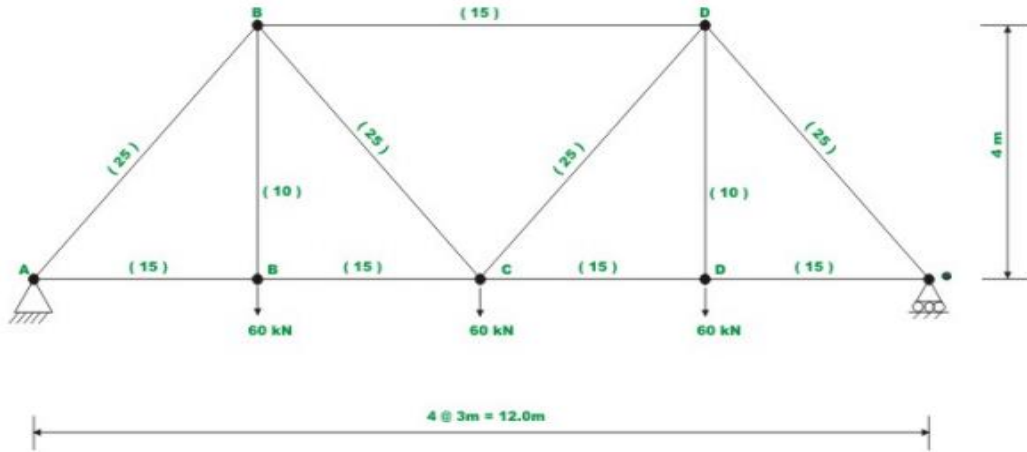
ASSIGNMENT NO: 06

1.

Compute the vertical deflection of joint b and horizontal displacement of joint D of the truss shown in Fig. 6.3a due to

a) Applied loading as shown in figure.

b) Increase in temperature of $25^{\circ}C$ in the top chord BD . Assume $\alpha = \frac{1}{75000}$ per $^{\circ}C$, $E = 2.00 \times 10^5 N/mm^2$. The cross sectional areas of the members in square centimeters are shown in parentheses.



2.

Find horizontal and vertical deflection of joint C of truss $ABCD$ loaded as shown in Fig. 6.2a. Assume that, all members have the same axial rigidity.

