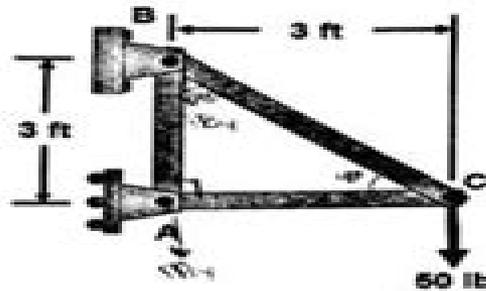


4.



$$\sum F_x = 0$$

$$0 = F_{Ax} + F_{Bx} - 50$$

$$50 = F_{Ax} + F_{Bx}$$

$$50 = 100 + F_{Bx}$$

$$-100 = F_{Bx}$$

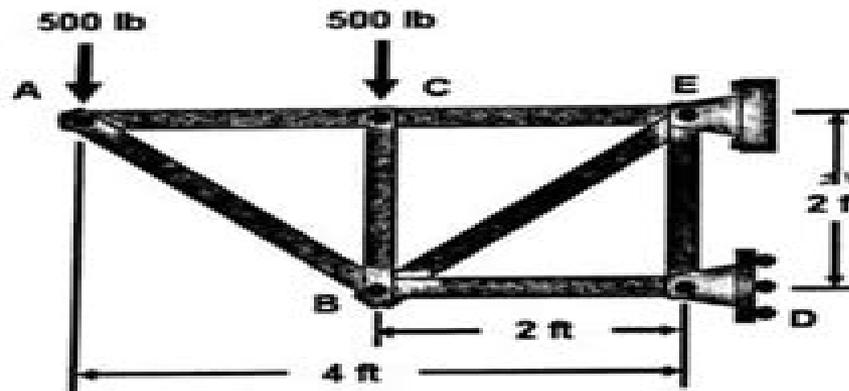
$$\sum F_y (3 - 50(3)) + F_{Ay} = 0$$

$$F_{Ay} = 100 \text{ lb}$$

$$F_{Bx} = 0 \text{ lb}$$

$$F_{By} = -100 \text{ lb}$$

5.



$$F_{Dy} + F_{Ey} - 500 - 500 = 0$$

$$F_{Dy} + F_{Ey} = 1000$$

$$\sum F_x (0) - 500(3 - 500(3)) + F_{Dx} = 0$$

$$-1000 + F_{Dx} = 0$$

$$F_{Dx} = 1000 \text{ lb}$$

$$F_{Ey} = 0 \text{ lb}$$

$$F_{Ex} = 0 \text{ lb}$$

### Conclusion

1. What is the significance of including roller connections rather than pinned connections?

Roller connections allow the structure to move in either the x or y direction while pinned supports do not.

2. How does the triangle shape make a truss rigid?

The triangle shape provides more support than a square because for a triangle to change, the member would have to break, while with a square, the square moves freely.

# Activity 2 1 7 Calculating Truss Forces Answers

**Annelies Wilder-Smith**



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