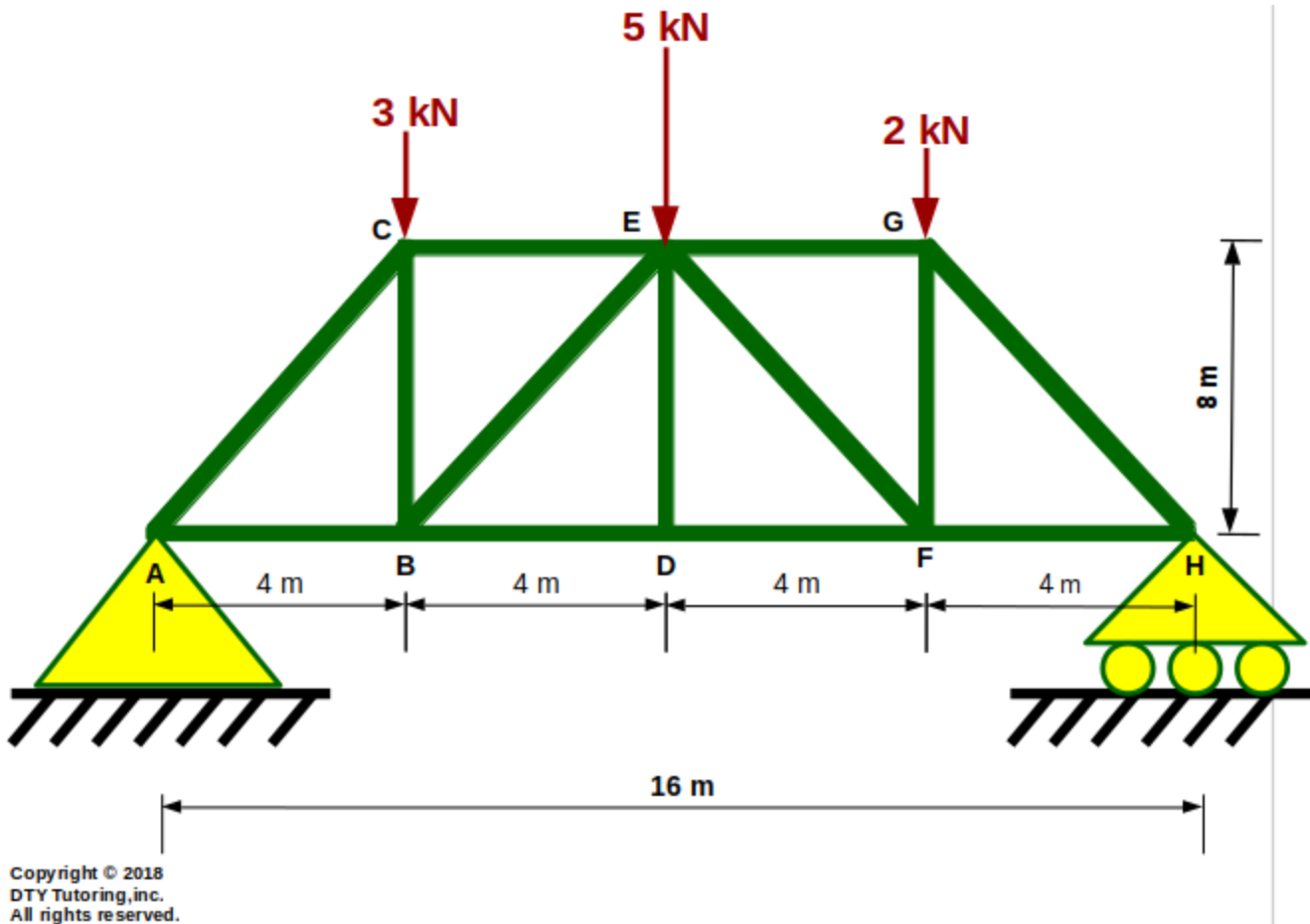


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The truss shown below is supported by a pin at A and a roller at H. Compute the forces in each member, indicate whether the members are in tension (T) or compression (C) and identify all zero force members.





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Answers (refer to solutions for detail)

$$F_{AB} = 2.63 \text{ kN (T)}$$

$$F_{AC} = 5.87 \text{ kN (C)}$$

$$F_{BC} = 2.25 \text{ kN (T)}$$

$$F_{BD} = 3.75 \text{ kN (T)}$$

$$F_{BE} = 2.52 \text{ kN (C)}$$

$$F_{EF} = 3.07 \text{ kN (C)}$$

$$F_{ED} = 0$$

$$F_{HG} = 5.31 \text{ kN (C)}$$

$$F_{EG} = 2.38 \text{ kN (C)}$$

$$F_{DF} = 3.75 \text{ kN (T)}$$

$$F_{GF} = 2.75 \text{ kN (T)}$$

$$F_{HF} = 2.38 \text{ kN (T)}$$

$$F_{EC} = 2.63 \text{ kN (C)}$$