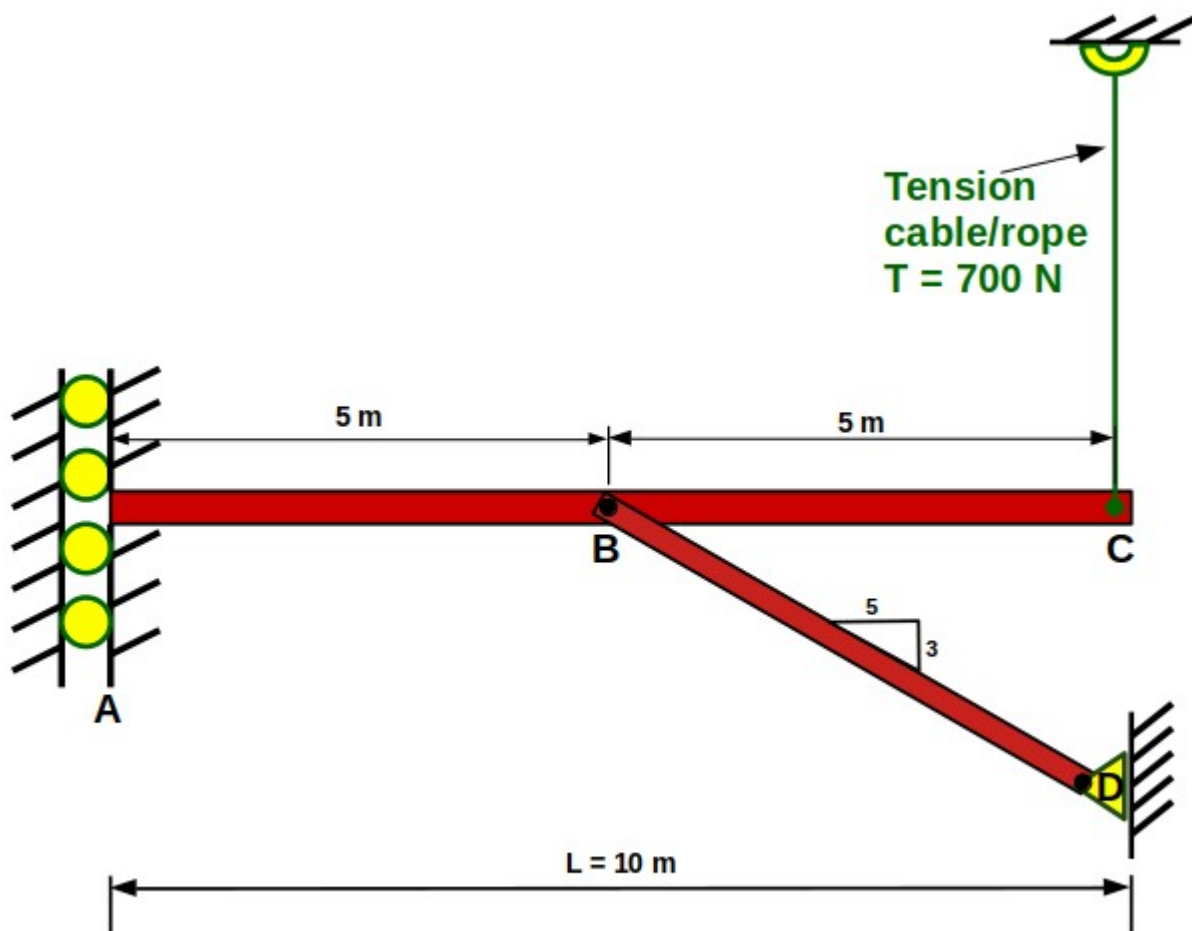
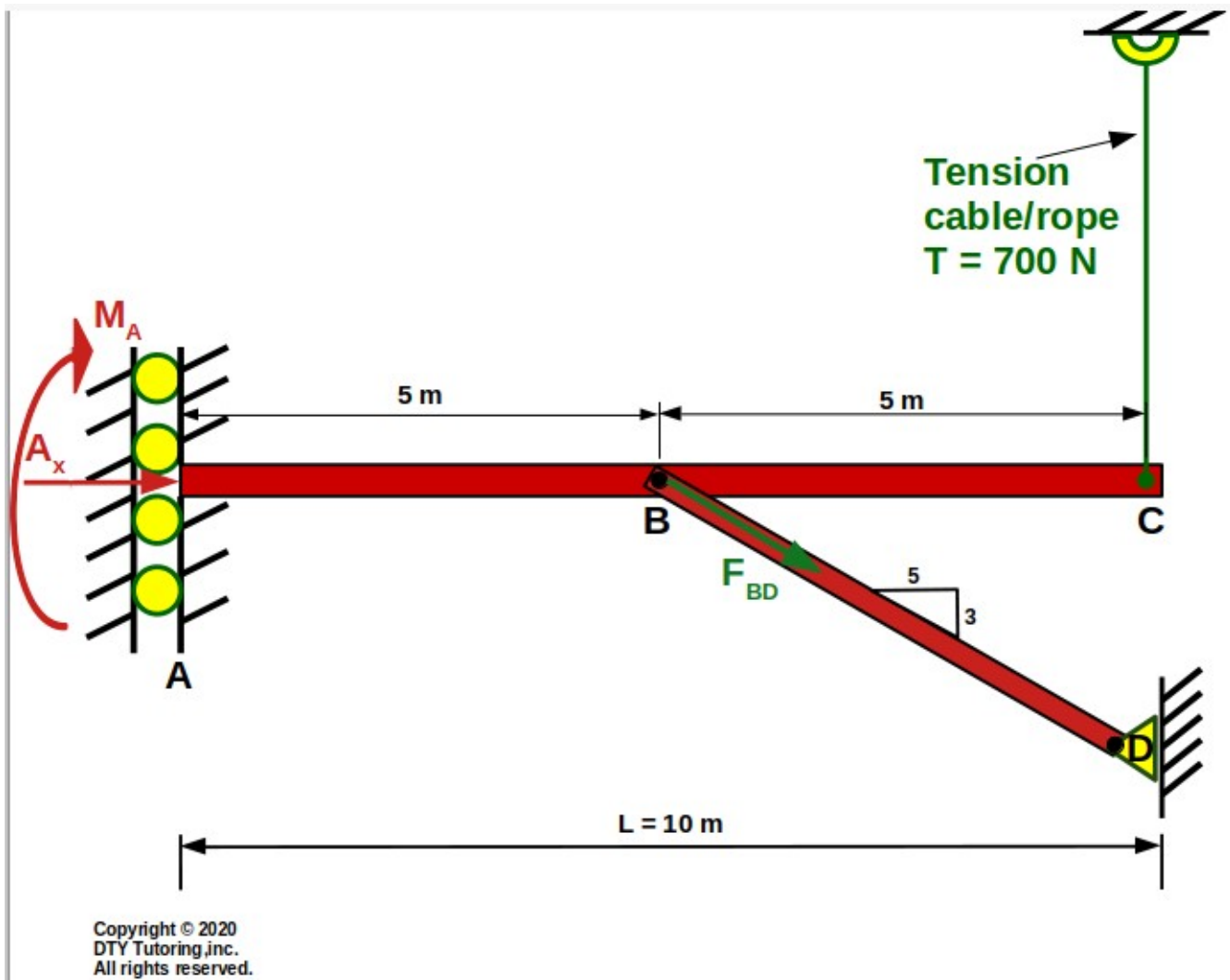


Date: 3rd December 2020

The beam is supported by a fixed horizontal roller at A, has an external load applied at B, and is pulled by a tension cable at C ($T_c = 700\text{N}$). Find the force in member BD (F_{BD}).



Answers (refer to solutions for detail)



$F_{BD} = 1.361\text{ kN}$

$A_x = 1.167\text{ kN} \leftarrow$

$M_A = 3.50\text{ kN}\cdot\text{m} \curvearrowright$