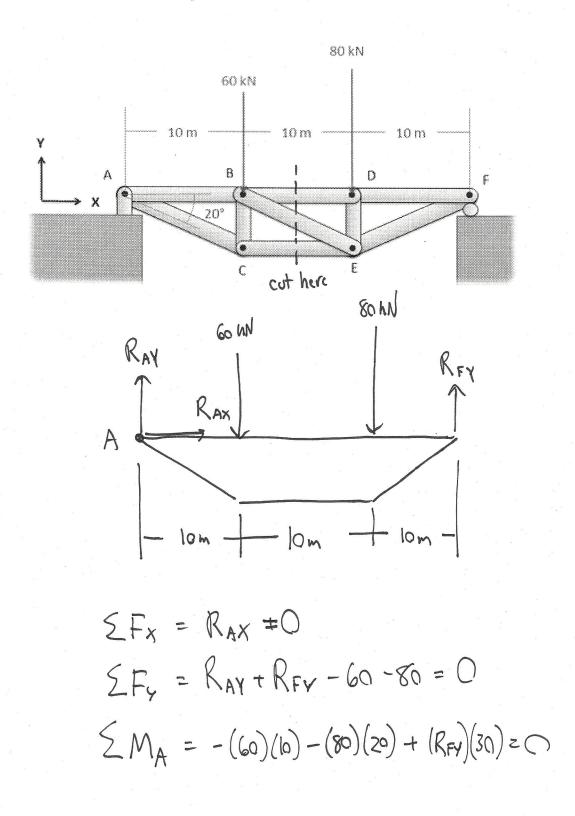
Question 1:

Find the forces acting on members BD and CE. Be sure to indicate if the forces are tensile or compressive.



$$R_{AY} = \frac{(60)(10) + (80)(20)}{30} = 73.33 \text{ hN}$$

$$R_{AY} = 60 + 80 - 73.33 = 66.67 \text{ hN}$$

Now cut bridge in half

$$F_{BD} = -\cos(20)(19.50) - 183.16 = -201.48$$

Solution: