ENDS 231: Practice Quiz 3

Note: A one page (one sided) crib sheet is allowed during the quiz, along with a silent, non-programmable calculator.

Clearly show your work and answer.

The truss shown has the following support reactions:

short link at E = 85.0 k (T), Cx = 59.1 k, Cy = 94.7 k

Using the method of joints only, find:

a) the member forces at joint A [or C or ...]

b) the remaining force at the adjacent joint E [or B or D ...]

c) [some short question from the text material]

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Answers:

a) AB = 10.3 k (C), AE = 18.2 k (T) (or BC = 23.5 k (T), CD = 101.2 k (T))

b) BE = 33.2 k (T), ED = 80.3 k (T) (or BD = 63.8 k (C), ED = 80.3 k (T))