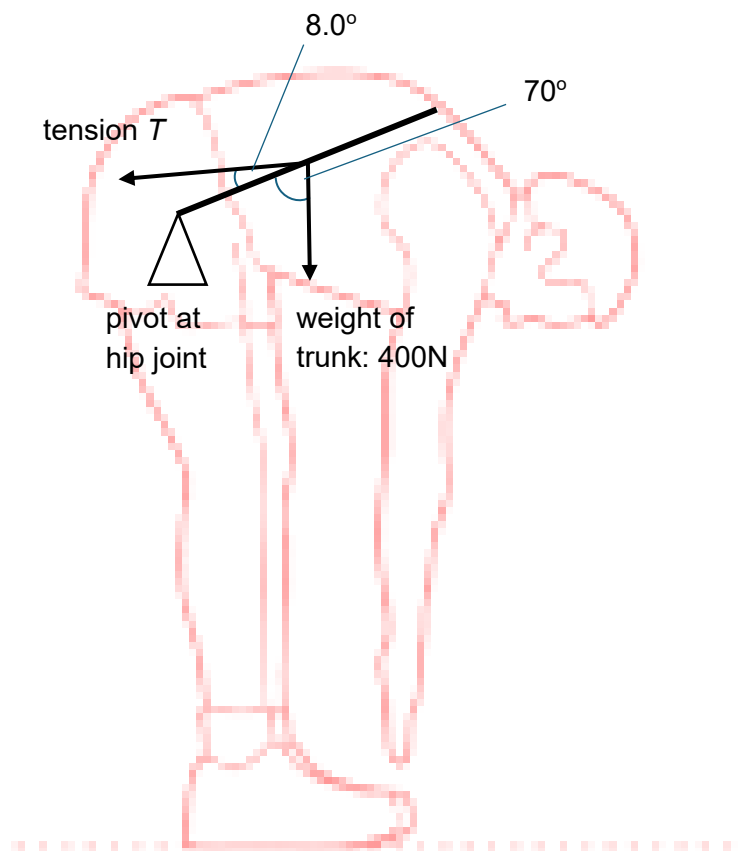


- 5 A simplified diagram below represents the trunk of a person bent forward, with the spine at an angle of 70° to the vertical. The back muscle exerts a tension T and makes an angle of 8.0° to the spine. The weight of the person's trunk which is 400 N, acts at the point along the spine where the back muscle is attached.



What is the tension T in the back muscle?

- | | |
|----------------|-----------------|
| A 140 N | B 380 N |
| C 980 N | D 2700 N |