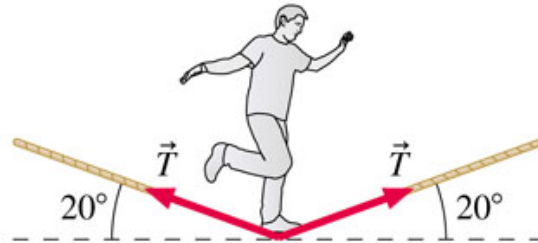


Practice: Newton's First Law

Problem: A student with a mass of 62 kg (weight of 608 N) is walking on a slackline, a length of webbing stretched between two trees. The line stretches and so has a noticeable sag as shown in the figure. At the point where his foot touches the line, the rope applies a tension force in each direction as shown.



What is the tension in the line?

[Ans: 889 N]