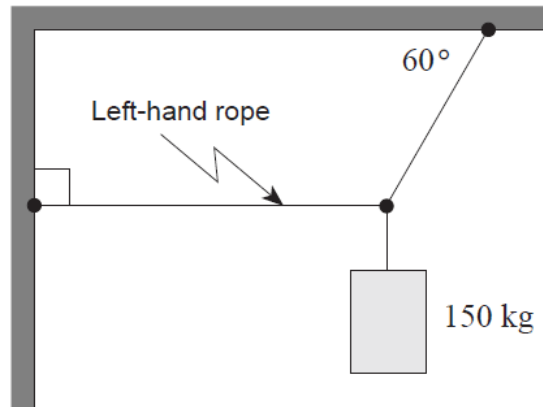


Physics 12 Review #30

1.

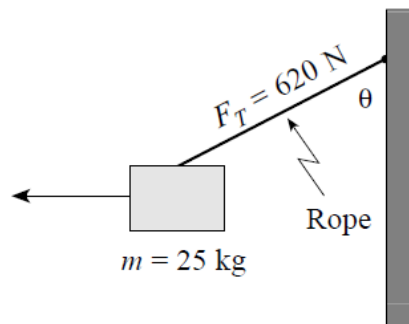
A 150 kg object is suspended from a ceiling and attached to a wall. What is the tension in the left-hand rope?



- A. 7.4×10^2 N
- B. 8.5×10^2 N
- C. 1.3×10^3 N
- D. 2.5×10^3 N

2.

A 25 kg block is pulled by a horizontal force. The supporting rope can withstand a maximum tension force of 620 N.



To what maximum angle, θ , can the block be pulled without the rope breaking?