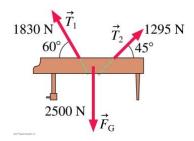
Phys 2320 Spring 2023 Problem related to Workshop 8 Main topics: vector decomposition, dot product, work, free-body diagrams, vector addition

(Knight 4th Edition Problem 9.18)

The two ropes seen in the figure below are used to lower a 255 kg piano 5.00 m from a second-story window to the ground. How much work is done by each of the three forces?



Answer: ($\vec{F}_G=1.25 imes10^4$ J, $\vec{T}_1=-7.92 imes10^3$ J, $\vec{T}_2=-4.58 imes10^3$ J)