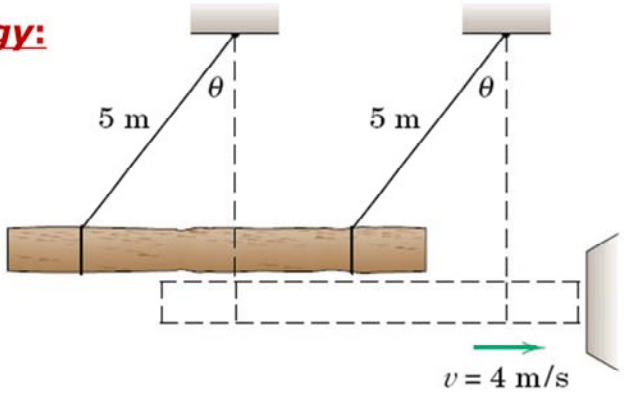
Work-*Energy*: Exercise 1



The log is suspended by two parallel 5-m cables and used as a battering ram.

Determine the ***angle*** θ for the log to be released from rest in order to strike the object to be smashed with a ***velocity*** of ***4 m/s***.

6/118 $U'_{1-2} = \Delta T + \Delta V_g$

$0 = \frac{1}{2}m(4^2 - 0^2) - mg(5)(1 - \cos\theta)$

$\theta = 33.2°$