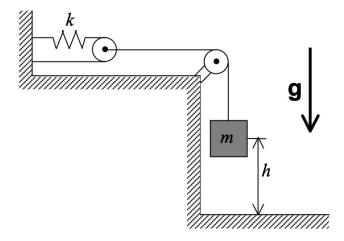
## Homework H.4.J

Given: A block with mass m is attached to a pulley system. The other end of the cable is attached to a spring with stiffness k, as shown in the diagram. The spring is initially unstretched when the block is at a distance h from the ground. The system is released from rest. Assume all pulleys are massless.

Find: Determine the velocity of the block when it hits the ground.



Use the following parameters in your analysis: m = 200 kg, k = 3 N/m and h = 0.75 m.

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