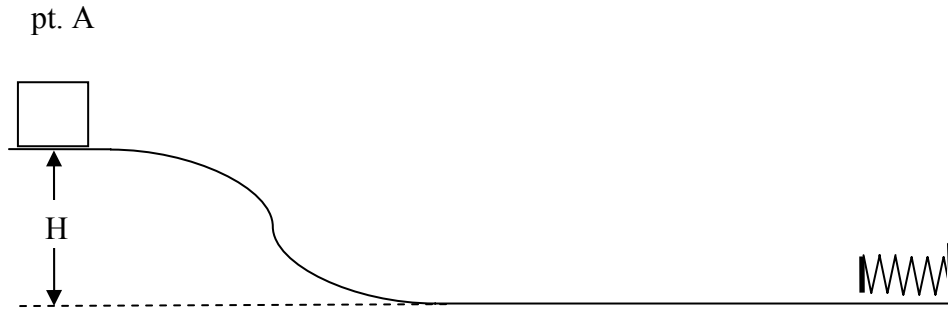


**W6.05a**

Energy



1] A 10-kg box is released from rest and slides down a 800 cm tall incline and then compresses a spring ( $k = 50 \text{ N/m}$ ). What is the maximum compression of the spring ( $\Delta s$ ) before the box is pushed away?

Note: all surfaces are frictionless.

2] A 10-kg box moving at 10 m/s on top of a 800 cm tall incline slides down and then compresses a spring ( $k = 50 \text{ N/m}$ ). What is the maximum compression of the spring ( $\Delta s$ ) before the box is pushed away?

Note: all surfaces are frictionless.

## KEY-W6.05a

- 1] 5.6 m
- 2] 7.2 m