## **Energy**



1] A 10-kg box is held against a spring, which is compressed 2.0 m as shown. If the box is moving at 10 m/s when it reaches the top of the incline, what is the spring constant (k)?

Note: all surfaces are frictionless, and the height (H) of the incline is 6.0 meters.

2] A 10-kg box is held against a spring, which is compressed 2.0 m as shown. If the box is moving at 10 m/s when it reaches the top of the incline, what is the spring constant (k)?

Note: the incline surface has a  $\mu$  = 0.2, all other surfaces are frictionless, and the height (H) of the incline is 6.0 meters.

## **KEY-W6.05c**

1] 550 N/m 2] 630 N/m