

The box A rests on platform B, which is attached to a spring with K= K N/m. The spring is initially stretched of m, then is stretched ever further to by m.

If a force F is applied to stretch the spring, and box A has a mass of in kg, what is the work done by gravity and the spring?

(Assume g=9.81m/s2, reduct the mass of platform B)

$$Mg = -mg(h-d)$$