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The gravitational potential energy is set to zero at ground level. The cow is launched from a spring of spring constant $1.1 \times 10^4 \text{ N/m}$ $1.1 \times 10^4 \text{ N/m}$ that is expanded 0.5 m from equilibrium. If the castle is 9.1 m tall and the mass of the cow is 110 kg, (a) what is the gravitational potential energy of the cow at the top of the castle?

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