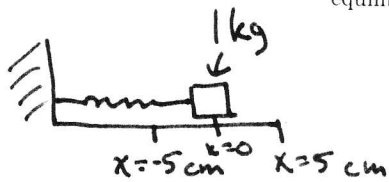


4. Consider a 1 kg mass attached to a spring (spring constant $k = 10\frac{\text{N}}{\text{m}}$) on a frictionless horizontal surface as shown. What is the net force on mass at the equilibrium position?



- What is the net force on the mass when the mass is 5 cm to the right of the equilibrium position?

- What is the acceleration of the mass when the mass is 5 cm to the left of the equilibrium position?