

Solutions

Each answer shows the steps, then the **result**.

2.1

- it must be proportional to the displacement and directed back toward equilibrium ($F = -kx$)

2.2

- a mass on a spring; a small-angle pendulum

2.3

- to the left, back toward equilibrium

3.1 B

3.2 B

3.3

(a)

- $F = kx = 200 \times 0.10 = 20 \text{ N}$

(b)

- toward equilibrium (to the left)