



What happens to the period of a pendulum if it is moved to a planet whose gravitational acceleration is one-fourth that of Earth?

- A. The period is halved.
- B. The period is doubled.
- C. The period is quadrupled.
- D. The period is quartered.

Two different mass-spring systems are oscillating with the same amplitude. If one has twice as much total energy as the other, how does the spring constant of the more energetic system compare with that of the less energetic system?

- A. It is the same.
- B. It is half as great.
- C. It is one-fourth as great.
- D. It is twice as great.
- E. It is four times as great.