

## COLLEGE PHYSICS PHY2053

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### CHAPTER 10-PRACTICE PROBLEMS

- In simple harmonic motion, the speed is greatest at that point in the cycle when
  - the magnitude of the acceleration is a maximum.
  - the displacement is a maximum.
  - the magnitude of the acceleration is a minimum.
  - the potential energy is a maximum.
  - the kinetic energy is a minimum.
- If the amplitude of the motion of a simple harmonic oscillator is doubled, by what factor does the frequency of the oscillator change?
  - 2
  - 4
  - 1
  - 1/2
  - 1/4
- If the frequency of the motion of a simple harmonic oscillator is doubled, by what factor does the maximum speed of the oscillator change?
  - 2
  - 4
  - 1
  - 1/2
  - 1/4
- If the frequency of the motion of a simple harmonic oscillator is doubled, by what factor does the maximum acceleration of the oscillator change?
  - 2
  - 4
  - 1
  - 1/2
  - 1/4
- A mass is attached to a spring and oscillates with a period  $T$ . If the mass is doubled, what is the new period?
  - $2T$
  - $T/2$
  - $T$
  - $T\sqrt{2}$
  - $T/\sqrt{2}$

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**Raymond A. Serway**



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