



- (i) at some point during the oscillation the mass has v = 0 but $a \neq 0$
- (ii) at some point during the oscillation the mass has v = 0 and a = 0.

- 1. Both occur sometime during the oscillation.
- 2. Neither occurs during the oscillation.
- 3. Only (i) occurs.
- 4. Only (ii) occurs.

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An object hangs motionless from a spring. When the object is pulled down, the sum of the elastic potential energy of the spring and the gravitational potential energy of the object and Earth

- 1. increases
- 2. decreases
- 3. remains the same.