When we pull the mass down from its equilibrium, what happens to the energies?

The gravitational PE

- A. increases
- B. decreases
- C. remains the same
- D. you can't tell from the information given.



11



When we pull the mass down from its equilibrium, what happens to the energies?

The spring PE

- A. increases
- B. decreases
- C. remains the same
- D. you can't tell from the information given.





When we push the mass up from its equilibrium, what happens to the energies?

The spring PE

- A. increases
- B. decreases
- C. remains the same
- D. you can't tell from the information given.



14



mass is measured by a sonic ranger sitting 25 cm under the mass's equilibrium position. At some time, the mass is started oscillating. At a later time, the sonic ranger

begins to take data.

If graph 1 represents the position shown by the ranger which graph could represent the **velocity** of the mass?

8 5 2 Physics 132

3/29/17

A mass is hanging from a spring. The position of the mass is measured by a sonic ranger sitting 25 cm under the mass's equilibrium position. At some time, the mass is started oscillating.

At a later time, the sonic ranger begins to take data.

Which graph could represent the **net force** on the mass?



3/29/17

A pendulum is swinging back and forth between the extremes marked A and C. At point B it is directly below the pivot.







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