The figure shows the position of a small ball being shot straight up by a spring Each black dot represents the position of the ball at a specific time. The time interval between each successive black dot is constant. The spring, with the bal p and reased The ball left the spring position $Q$ and reaches its highest point at position R. Assuming that air resistance can be neglected, which statement is true?

The ball has its maximum kinetic nergy at point $R$
The acceleration of the ball is constan
spring
The ball has its maximum kinetic
energy at point
The acceleration of the ball
decreases once the ball loos
The total the spring
decreases as the ball moves decreases a
from P to R

In class Quiz \#11-1
In Class Quiz \#11-1


In class Quiz \#11-2
A spring $(k=800 \mathrm{~N} / \mathrm{m})$ is compressed 10 cm . It is used to push a 1.0 kg block along a frictionless track and up a $\theta=30^{\circ}$ frictionless incline. How high above its starting level does the block rise?
$\checkmark 41 \mathrm{~cm}$
B. 82 cm

c. 12.8 m
D. 3.19 m

$$
h=\frac{k x^{2}}{2 m g}
$$

E. Must know distance $x$ block is away from incline

```
    In class Quiz #11-3
A kilowatt-hour has the units of--
    A. Power
    в. Time
v c. Energy 1 Kwh = 3.6x10 ' Joules
    D. Force
    E. Length
```

