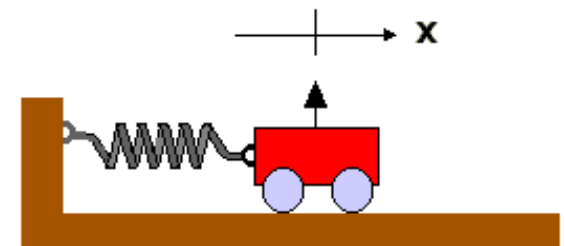


A mass connected to a spring is oscillating back and forth. Consider two possibilities:

- (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.



Tracking the motion

x

F^{net}

a

v

