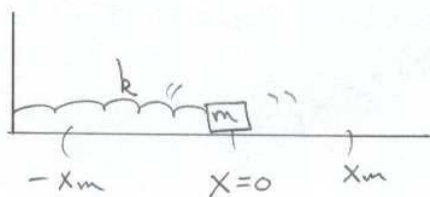


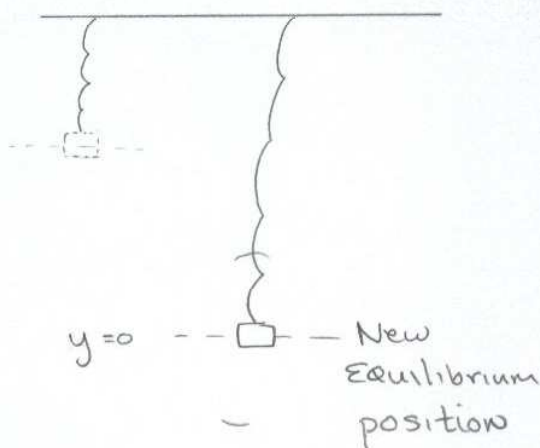
What's the Difference?

14-6



$$f = \frac{1}{2\pi} \sqrt{\frac{k}{m}}$$

Now mount
the system
vertically:



When the system is made to oscillate in a vertical position, f is the same. $m\vec{g}$ just shifts the equilibrium position downward. (see proof in Tipler or online).