2.5.1 smootter choice:

(4)
$$U = -mgy = -mgg sine$$

This is O) L but Not good chough because the Cohnection to acceleration is Complicated. instead The BEST way is to see that the system has only ONE D.O.F.

$$D = g + one$$

$$D = g + one$$

(10)
$$x = 9$$

(11) $y = 0 - 9$ tone