6-1)

A ball of mass 0.8 kg is tied to the end of a light string 1.6 m long, and swung in a vertical circle.

a) Starting at the bottom of the circle, find the work done by the tension in the string during a complete cycle.
b) Starting at the bottom of the circle, find the work done by the weight during a complete cycle.
c) Starting at the bottom of the circle, find the work done by the tension in the string while the ball moves to the top of the circle.
d) Starting at the bottom of the circle, find the work done by the weight while the ball moves to the top of the circle.