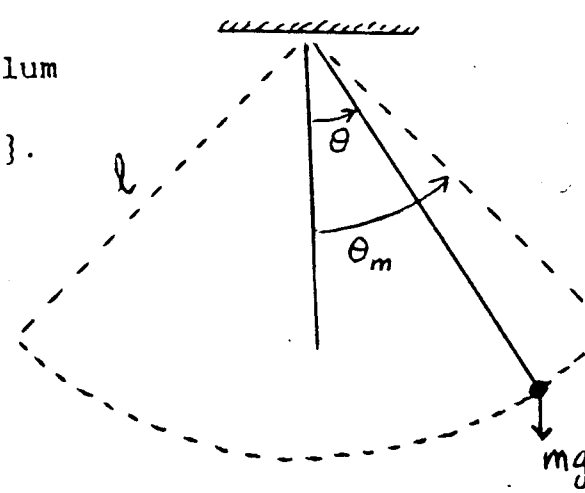
204 A simple pendulum of length 1.00 m makes 100 complete oscillations in seconds at a certain location. What is the acceleration due to gravity this point ?

A. 15.23 m/(s**2)
B. 2.98 m/(s**2)
C. 9.49 m/(s**2)
D. 7.94 m/(s**2)
E. 11.75 m/(s**2)

A simple pendulum having a period of 1 s on the surface of the earth is found to have a period of 2.46 s on the surface of the moon. What is the acceleration due to gravity on the surface of the moon ?

A. 3.71 m/s**2
B. 9.80 m/s**2
C. 16.10 m/s**2
D. 12.10 m/s**2
E. 1.62 m/s**2

The equation of motion for a certain simple pendulum pendulum (see figure) is
theta = (20 deg) * sin{ (3*pi rad) * t + 0.6 rad }.
Find the length of the pendulum.



A. 25 cm
B. 4.0 cm
C. 8.1 cm
D. 2.4 cm
E. 11 cm