

Problem 1.51

[Computer] Repeat all of Problem 1.50 but using the initial value $\phi_0 = \pi/2$.

Solution

Equation (1.51) is on page 31:

$$\ddot{\phi} = -\frac{g}{R} \sin \phi \quad (1.51)$$

With $R = 5$ m and $g = 9.8$ m/s² and $\phi_0 = \pi/2$, the initial value problem to solve is

$$\ddot{\phi} = -\frac{9.8}{5} \sin \phi, \quad \phi(0) = \frac{\pi}{2}, \quad \phi'(0) = 0$$

$$\ddot{\phi} = -1.96 \sin \phi, \quad \phi(0) = \frac{\pi}{2}, \quad \phi'(0) = 0.$$

Note that $\phi(0) = \pi/2$ is the angle at $t = 0$, and $\phi'(0) = 0$ indicates that the particle starts from rest. To numerically solve this, type

$$s = \text{NDSolve}\left[\left\{\phi''[t] == -1.96 \sin[\phi[t]], \phi[0] == \frac{\pi}{2}, \phi'[0] == 0\right\}, \phi, \{t, 0, 21\}\right]$$

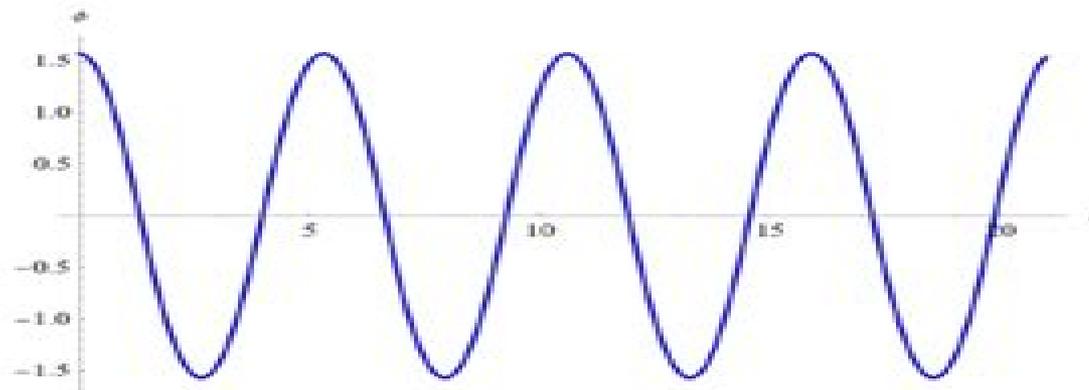
into Mathematica and press Shift+Enter. The output below is given as a result.

$$\left\{\left\{\phi \rightarrow \text{InterpolatingFunction}[\dots]\right\}\right\}$$

In order to plot this function, type

$$\text{Plot}\left[\text{Evaluate}[\phi[t] /. s], \{t, 0, 21\}, \text{PlotRange} \rightarrow \text{All}, \text{AxesLabel} \rightarrow \{t, \phi\}, \text{PlotStyle} \rightarrow \text{Blue}\right]$$

into Mathematica and press Shift+Enter to obtain the following graph.



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