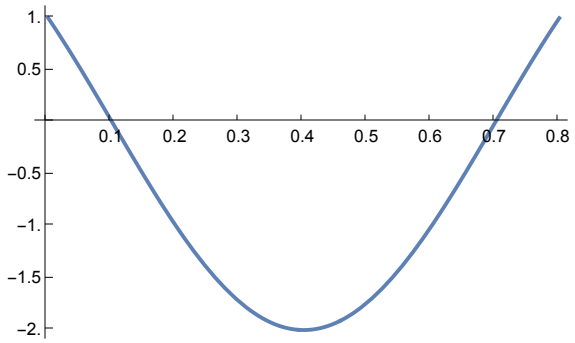
1. (CONT'D) These graphs have corrected vertical axes

(k) Graph of the L = 3 ΔL / 2 case

```
In[26]:= Plot[2 Cos[2 Pi t / 1.2 + Pi / 3], {t, 0.0, 0.8}, PlotRange → {-2.1, 1.1},
          Ticks → {Range[0, 0.8, 0.1], Range[-2.0, 1.0, 0.5]}, AspectRatio → 0.5 / 0.8]
```

Out[26]=

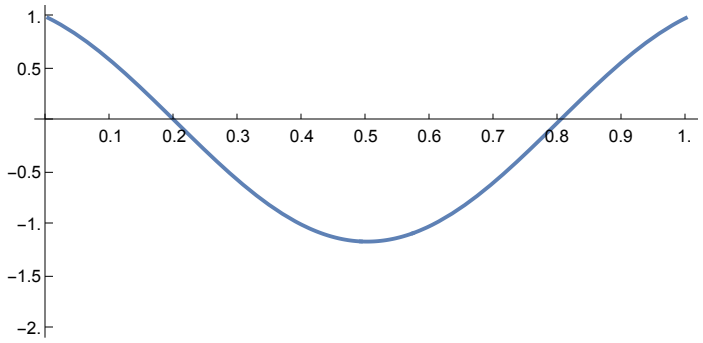


Long string length,
rebounds in 2/3 of a cycle
and goes deep

(l) Graph of the L = ΔL / 6 case

```
In[27]:= Plot[2 Cos[2 Pi t / 1.2 + Pi / 6] / Sqrt[3], {t, 0.0, 1.0}, PlotRange → {-2.1, 1.1},
          Ticks → {Range[0, 1.0, 0.1], Range[-2.0, 1.0, 0.5]}, AspectRatio → 0.5 / 1.0]
```

Out[27]=

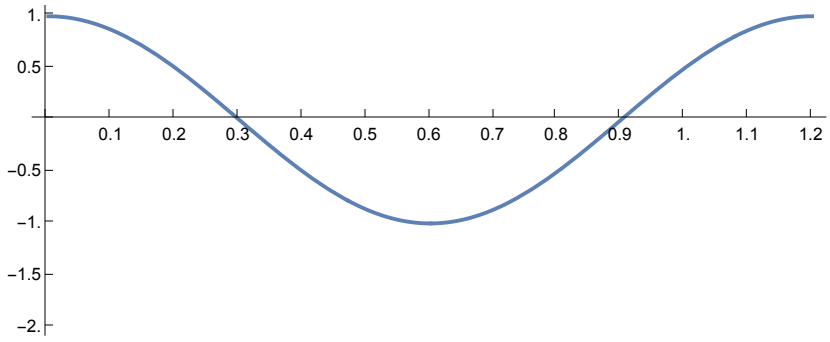


Short string length,
rebounds in 5/6 of a cycle,
and goes less deep

Graph of the L=0 case (not asked for, but a nice simple case to consider)

```
In[28]:= Plot[Cos[2 Pi t / 1.2], {t, 0.0, 1.2}, PlotRange → {-2.1, 1.1},
          Ticks → {Range[0, 1.2, 0.1], Range[-2.0, 1.0, 0.5]}, AspectRatio → 0.5 / 1.2]
```

Out[28]=



Zero string length,
gets back to original height
in a full cycle