


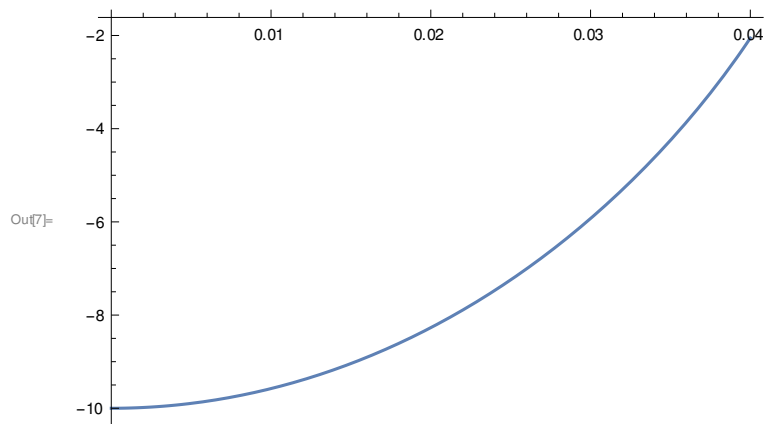
```
In[1]:= R := 8.31
        T := 293
        M := 28.97 / 1000
        g := 9.8
        h := -10
```

```
In[6]:= solution = NDSolve[{y'[t] == -g - (R * T) / (M * y[t]), y[0] == h, y'[0] == 0}, y, {t, 0, 10}]

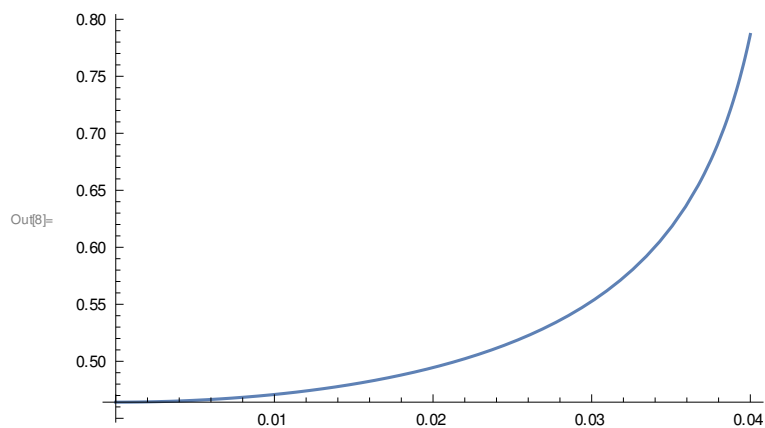
... NDSolve : At t == 0.04325234866474409` , step size is effectively zero ; singularity or stiff system suspected .
```

```
Out[6]:= {{y -> InterpolatingFunction [ +  Domain : {{0., 0.0433 }} Output : scalar ]}}
```

```
In[7]:= Plot[Evaluate [y[t] /. solution], {t, 0, 0.04}]
```



```
In[8]:= Plot[Evaluate [CubeRoot [-1 / (y[t] /. solution) ]], {t, 0, 0.04}]
```



```
In[9]:= Manipulate [Graphics [{Circle [{0, (y[t] /. solution )[[1]]}, CubeRoot [-1 / (y[t] /. solution )[[1]]}],  
PlotRange -> {{-1, 1}, {-11, 0}}, {t, 0, 0.04}]
```

Out[9]=

