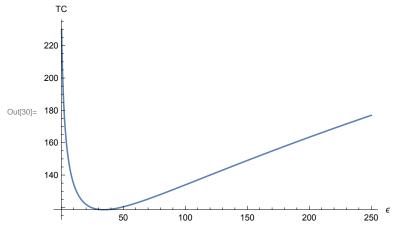
```
In[22]:= L = 5
Out[22]= 5
In[16]:= T = 240
Out[16]=\ 240
 In[6]:= \mathbf{U} = \mathbf{1}
Out[6]= 1
      (* CP is 1/2 of base LP pool liquidity in millions of dollars *)
In[26]:= CP = 10
Out[26]= 10
220
     200
      180
Out[27]=
      160
     140
                                           100
                                                                              200
                                                                                                250
ln[32]:= FindMinimum \left[CP * \left(T / \left(L * x\right) + U\right) * \left(Sqrt[1 + x] - 1\right), x\right]
```

Out[32]= $\{118.564, \{x \rightarrow 34.1436\}\}$

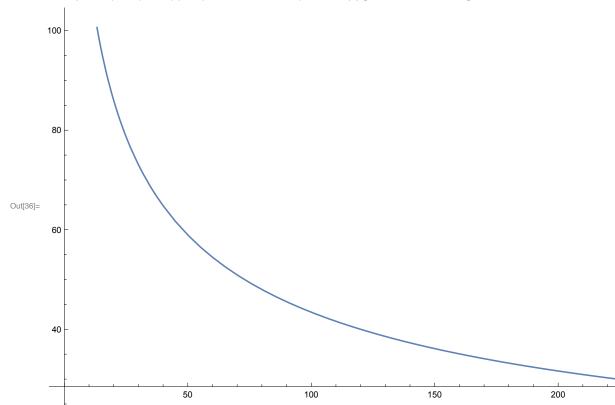
ln[30]:= Show[%27, AxesLabel \rightarrow {HoldForm[ϵ], HoldForm[TC]}, PlotLabel → None, LabelStyle → {GrayLevel[0]}]

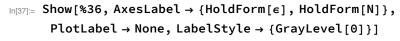


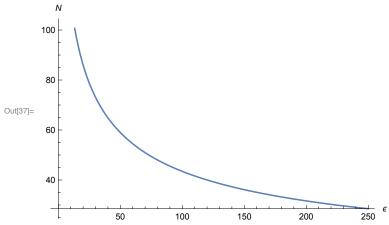
In[31]:= Export["/Users/personal/Desktop/tc_10m.svg", %30, "SVG"]

Out[31]= /Users/personal/Desktop/tc_10m.svg

 $\{CP * (T/(L*x)) * (Sqrt[1+x]-1), x > 0\}\}], \{x, -1, 250\}]$







$$ln[35]:= CP * (T / (L * 34.14359353944894`)) * (Sqrt[1 + 34.14359353944894`] - 1)$$
Out[35]= 69.282

(* Caps on OI can be made s.t. N break-even in [35] is not possible *)