```
ResourceFunction["MaTeXInstall"][]
```

In[1151]:=
```
<< MaTeX`
n = 10
DALL[p_, m_] = Sum[p^(i - 1), {i, 1, m}]
LowerBound[p_, m_] = 4 * p (1 - p) (m * p^(m - 1))^2
LowerBound[p, n]
p = Plot[{DALL[p, n], LowerBound[p, n]}, {p, 0, 1},
  PlotLegends → {MaTeX@{"D_p(ALL_{10}^1)", "4p(1-p)(\mathbf{I}^p(f))^2"}}]
Export["/home/julia/git/ComplexityOfBooleanFunctions/plots/lowerbound_all10.eps", p]
```

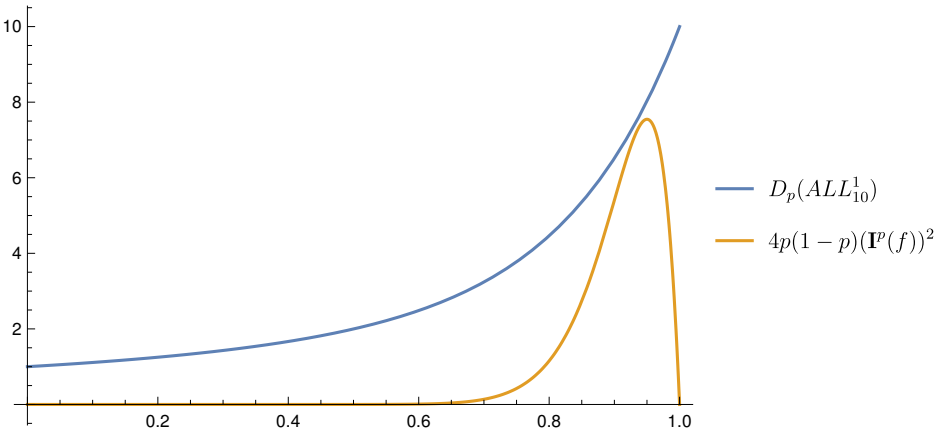
Out[1152]= 10

Out[1153]= $\frac{-1 + p^m}{-1 + p}$

Out[1154]= $4\, m^2\, (1 - p)\, p^{-1+2\, m}$

Out[1155]= $400\, (1 - p)\, p^{19}$

Out[1156]=



Out[1157]= /home/julia/git/ComplexityOfBooleanFunctions/plots/lowerbound_all10.eps