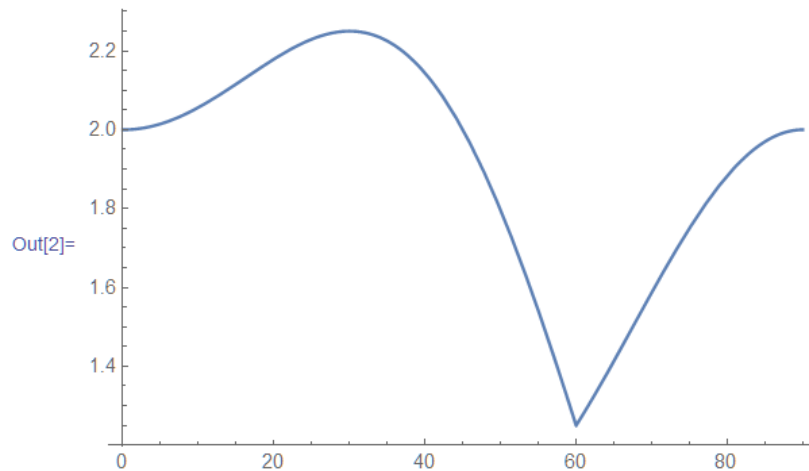Plot of Bell's function for Arrangement #2

In[1]:= (* book's plot, Figure 18.5 *)
    b[th_] = Abs[Cos[th]^2 - Cos[2 th]^2] + Abs[Cos[th]^2 + 1]
    Plot[b[th Degree], {th, 0, 90}]

Out[1]= $\text{Abs}\left[1 + \text{Cos}[th]^2\right] + \text{Abs}\left[\text{Cos}[th]^2 - \text{Cos}[2 th]^2\right]$

Out[2]=

In[3]:= (* correct plot *)
    b2[th_] = Abs[(Cos[th]^2 - Sin[th]^2) - (Cos[2 th]^2 - Sin[2 th]^2)] +
      Abs[(Cos[th]^2 - Sin[th]^2) + 1]
    Plot[b2[th Degree], {th, 0, 90}]

Out[3]= $\text{Abs}\left[1 + \text{Cos}[th]^2 - \text{Sin}[th]^2\right] + \text{Abs}\left[\text{Cos}[th]^2 - \text{Cos}[2 th]^2 - \text{Sin}[th]^2 + \text{Sin}[2 th]^2\right]$

Out[4]=