Consider the list of lists
L:=[[8, 29, 104, 293, 680], [61, 112, 237, 496, 973], [216, 309, 504, 861, 1464], [557, 704, 989, 1472, 2237], [1192, 1405, 1800, 2437, 3400]]

Let $g=g(x,y)$ be the unique polynomial of degree 4 in both $x$ and $y$, such that $g(i,j)=L[i][j]$ \hspace{1cm} 1 \leq i,j \leq 5

1. Use maple to find the polynomial $g$ (as an expression in $x$ and $y$, of degree 4 in $x$ and degree 4 in $y$). [Hint, you can use procedure GenPol from C7.txt or C8.txt]
2. Using, xmaple, do:
   - plots[implicitplot](g,x=-6..6,y=-5..5,axes=none);
3. print it out.
4. Cut it out.
5. Write inside it: “I love Experimental Math”.
6. Tape it on the door of Hill 704.

\begin{verbatim}

f[x_, y_] = Sum[Sum[a[i, j] x^i y^j, {i, 0, 4}], {j, 0, 4}];

f[x, y] /. Solve[Flatten[Table[f[i, j] == L[[i, j]], {i, 1, 5}, {j, 1, 5}]]]

ContourPlot[%, {y, -3, 3}, {x, -4, 1/2},
AspectRatio -> 3/4, ContourStyle -> Directive[Red, Thick],
Epilog -> {Text[Style["I love Experimental Math", Red, Large], {0, -1.5}]]]

Out[211]= {4 x^3 + x^4 - 4 y^2 + 4 x y^2 + 2 x^2 y^2 + y^4}

Out[212]=

\end{verbatim}

\textit{Mathematica} is better.