Question

The Fourier transform of a spatial filter is (sampling distance=1):

 $a \cos(u) + b \cos(v) + c \cos(u+v) + d \cos(u-v)$ $+ e \cos(2u) + f \cos(2v) + g$

(where u and v are the spatial frequencies in the horizontal and vertical directions, respectively)

Determine the coefficients of the spatial filter and present it as an nxm operator in the way the operators are presented in a)