

In question 9 on Problem Sheet 1 the  $(n - 1)$ -by- $(n - 1)$  matrix  $\mathbf{K}_0$  was introduced; it is the reduced Laplacian, once a node of grounded, of the Laplacian matrix of a complete graph. In that question you were asked to compute  $\mathbf{K}_0^{-1}$  for small values of the size  $n - 1$  of the matrix and to deduce a general formula for the inverse matrix.

Can you find another way to determine this inverse matrix for general  $n$  using recent results from lectures?