# HW5 – Theoretical questions

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1. Use Lagrange Multipliers to find the maximum and minimum values of the function subject to the given constraints:
   1. ; constraint: 2

2

* 1. ; constraint:
  2. ; constraints:

Other combinations of (x,y,z) don’t produce global max

1. Show that any Kernel function is symmetric, i.e.
2. Find the Kernel function for the following mapping: