## Assignment 7

1. (20 pts*) State and prove the blossoming principle for a degree $n$ polynomial with domain of arbitary dimension $d$.
2. (10 pts) Give a short (1-2 paragraph) description of your proposed project.

## Optional Questions (Extra credit?)

The following questions are optional. You might want to look at them, and think about them briefly. Do them and submit them if you want - I'll mark them if you do, and it won't hurt your grade. In fact, it might help your grade: if you do these question and miss points on the other questions on this assignment, I will use these to boost your score on this assignment up to $100 \%$.

1. ( 5 pts ) In class, we saw how to perform 4-1 subdivision of a triangular Bézier patch using 5 de Casteljau evaluations. Show how to obtain $4-1$ subdivision using only 4 de Casteljau evaluations.
