CS 779, Winter 2020 Assignment 7

- 1. (20 pts^{*}) State and prove the blossoming principle for a degree n polynomial with domain of arbitrary 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.