

## 6A

### b. Questions

1. I think I followed this section pretty well although the details of the proof of the theorem were a little hairy. I am curious how the jump from signed angle to interior angle was made.
2. To get rid of the  $\int \kappa_g$ , when using geodesics triangles is that because they have 0 geodesic curvature?
3. The Green's theorem that is used is just the one dimensional case of Stoke's theorem right? I was imagining  $\oint \vec{F} \cdot d\vec{\ell} = \int (\nabla \times \vec{F}) dV$ .

### c. Reflections

I think this section was pretty straight forward and reasonable. I will need to go through the proof of the local theorem slowly to make sure I understand what's going on. I was a little confused by the  $X$  and  $Y$  functions he used.

### d. Time

I took roughly 0.5 hour(s) to read this section.