

AME 60611

Homework 2

Due: Friday 5 September 2008, in class

1. Kaplan, p. 105: 2b
2. Kaplan, p. 117: 8b,f
3. Kaplan, p. 121: 3a,b; also plot lines of constant u and v in the x, y plane; plot lines of constant x and y in the u, v plane; find the metric tensor \mathbf{G} .
4. Kaplan, p. 121: 5
5. Kaplan, p. 159: 5d
6. Kaplan, p. 159: 7
7. Kaplan, p. 166: 6c
8. Kaplan, p. 210: 1b
9. Course notes: p. 47, 18
10. Course notes: p. 48, 19