

AME 561

Homework 2

Due: Thursday, 31 August 2000, in class

1. Kaplan, p. 105: 2a
2. Kaplan, p. 118: 3b; eliminate v and plot the surface in x, y, u space.
3. Kaplan, p. 123: 2a,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. 123: 6
5. Kaplan, p. 164: 5f
6. Kaplan, p. 164: 7
7. Kaplan, p. 172: 6b
8. Kaplan, p. 218: 1a
9. Course notes: 1.16, p. 38
10. Course notes: 1.17, p. 38