

AME 60611

Homework 7

Due: Friday 14 October 2011, in class

1. Kaplan, p. 128: 8b; give a plot showing the surface and the tangent plane at the point indicated.
2. Kaplan, p. 130: 18
3. Kaplan, p. 186: 13; use Cartesian index notation for this problem.
4. Kaplan, p. 195: 7
5. Kaplan, p. 287: 5b
6. Kaplan, p. 301: 3c
7. Kaplan, p. 312: 1c; Plot the curve  $C$  in  $xyz$  space
8. Course notes, 6.5
9. Course notes, 6.18
10. Course notes, 6.25, consider instead the point  $P : (1, 3, 2)$