Math 19B May 15, 2000

Calculus for Science, Engineering, and Mathematics Spring 2000, UCSC $\,$

QUIZ 7 Time: 15min

1. (a) Set up an integral corresponding to the area of a sphere of radius R. (b) Show that the area of a zone of the sphere contained between a pair of parallel hyperplanes is $2\pi Rd$, where d is the distance between the hyperplanes.

Each part is worth 5 points.

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