SPRING 1999 ANSWERS FOR EXAM II:

1. E

2. B

3. B

4. B

5. B

6. E

7. D

8. $\int_0^{2\pi} \int_0^{1/2} \int_{-\sqrt{1-r^2}}^{\sqrt{1-r^2}} r \; dz \; dr \; d\theta$

9. $\frac{\pi}{6}(13^{3/2} - 1)$

10. (1) $(3, 3/2)$ minimum

(2) $(-2, -1)$ saddle