

FALL 1998 ANSWERS FOR EXAM II:

1. B

2. C

3. E

4. A

5. D

6. B

7. E

8. π

$$9. \int_0^{2\pi} \int_1^2 r \sqrt{4r^2 + 1} \, dr \, d\theta = \frac{\pi}{6} (17^{3/2} - 5^{3/2})$$

$$10. \int_{-\sqrt{3/2}}^{\sqrt{3/2}} \int_{-\sqrt{3-2x^2}}^{\sqrt{3-2x^2}} \int_{2+x^2+y^2}^{5-x^2} dz \, dy \, dx$$