

Math 212 Spring 2018
Multivariable Calculus HW 9
Due Wednesday, April 25

1. 21.3.13
2. 21.3.16 (ab)
3. Find the integral of xy over the graph of $z = x^2 - y^2$ for $0 \leq x \leq 1, 0 \leq y \leq 1$.
4. Find the mass of a cone, centered at the origin, with base radius 2 and height 4, if the density is given by $\delta(x, y, z) = \sqrt{x^2 + y^2}$.

Without computing any integrals, find:

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|-----------|-------------|
| 5. 19.1.2 | 8. 19.1.10 |
| 6. 19.1.4 | 9. 19.1.12 |
| 7. 19.1.8 | 10. 19.1.18 |
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| 11. 19.2.4 | 19. 19.2.36 |
| 12. 19.2.6 | 20. 21.3.6 |
| 13. 19.2.8 | 21. 21.3.8 |
| 14. 19.2.10 | 22. 20.2.2 |
| 15. 19.2.14 | 23. 20.2.4 |
| 16. 19.2.18 | 24. 20.2.6 |
| 17. 19.2.22 | 25. 20.2.8 |
| 18. 19.2.30 | 26. 20.2.18 |