



Listado 13
Soluciones
Cálculo III (521227)

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|--|------------------------|--|
| 1. 0 | 11. $-2p(ah+a^2)$ | 27. $GmM/4$ |
| 2. 0 | 12. $-1/3$ | 28. 6 |
| 3. $18p^2$ | 13. 0 | 29. i) |
| 4. $e^x y^2 + x^3 y + k$ | 14. $-p$ | ii) |
| 5. $x^2 yz + y^2 e^z + k$ | 15. 0 | $\ln \sqrt{x^2 + y^2 + z^2}$ |
| 6. | 16. i) $4/3$ ii) $2/3$ | iii) |
| 7. $-2p$ | 17. $25\sin 5 - 1$ | $\left(1/\left(9+144p^2\right)^2 - 1/9\right)/4$ |
| 8. $3p/2$ | 18. 4 | |
| 9. $56-p$ | 19. $-6p$ | |
| 10. i) $3\sqrt{2}\left(1-e^{6p}\right)/13$ | 20. $-1-3p/2$ | 30. 6 |
| ii) $-p\sqrt{2}/2$ | 21. $128p^3$ | 31. |
| iii) | 22. 1 | 32. |
| $(235158\sqrt{26}-8)/546875$ | 23. 4 | 33. $4p$ |
| | 24. 4 | 34. |
| | 25. 3 | 35. |
| | 26. $2\sqrt{2}p$ | |