

Curso 1103 – 1° PERIODO
Solucionario AP3: Exponentes y raíces

I.

1. (a) -9 (b) 9 2. (a) 25 (b) 1000
3. (a) $\frac{1}{2}$ (b) $\frac{1}{8}$ 4. (a) $-\frac{27}{8}$ (b) $\frac{1}{4}$
5. (a) 4 (b) 2 6. (a) 8 (b) -4
7. (a) $\frac{2}{3}$ (b) 4 8. (a) 14 (b) 4
9. (a) $\frac{3}{2}$ (b) 4 10. (a) $\frac{1}{2}$ (b) $\frac{9}{4}$

II.

11. $3\sqrt[3]{3}$ 12. $9\sqrt{3}$ 13. $\sqrt[4]{3}$ 14. $y\sqrt[3]{2y} - \sqrt[3]{y}$
15. (a) x^{10} (b) $12y^7$ 16. (a) $\frac{1}{x^2}$ (b) 1
17. (a) y^3 (b) $\frac{1}{x^4}$ 18. (a) z^4 (b) $8y^6$

III.

19. (a) $405x^{10}y^{23}$ (b) $500a^{12}b^{19}$
20. (a) s^2t^7 (b) $72v^{11}$
21. (a) $\frac{3y^2}{z}$ (b) $\frac{y^2z^9}{x^2}$
22. (a) $\frac{2y}{x^2}$ (b) $4v^3$
23. (a) $\frac{a^{19}b}{c^9}$ (b) $\frac{v^{10}}{u^{11}}$
24. (a) $\frac{x^{10}}{yz^4}$ (b) r^9s^2
25. (a) $\frac{4a^8}{b^9}$ (b) $\frac{125}{x^6y^3}$
26. (a) $5x^2y$ (b) $\frac{a^9}{8b^{12}}$
27. (a) $\frac{b^3}{3a}$ (b) $\frac{s^3}{q^7r^4}$

IV.

28. x^2 29. xy^2 30. $4a^2\sqrt[3]{b^2}$ 31. $x\sqrt{yz}$
32. (a) $y\sqrt[6]{y^3}$ (b) $10\sqrt[12]{x^7}$
33. (a) $b\sqrt[4]{b}$ (b) $2a\sqrt[6]{a}$
34. (a) $2st\sqrt[6]{t^5}$ (b) $|x|$
35. (a) $|x|y^2$ (b) $2\sqrt[6]{x}$

