Suma de radicals

Nom:

Efectua les sumes i restes de radicals, i simplifica quan sigui possible:

1. $7\sqrt{7} - 12\sqrt{63} - 15\sqrt{28} =$

Sol. $-59\sqrt{7}$

2. $6\sqrt{48} - 4\sqrt{3} - 8\sqrt{12} =$

Sol. $4\sqrt{3}$

3. $11\sqrt[3]{5} + 10\sqrt[3]{40} + 3\sqrt[3]{5} =$

Sol. $34\sqrt[3]{5}$

4. $8\sqrt[4]{7} - 6\sqrt[4]{7} + 3\sqrt[4]{7} =$

Sol. $5\sqrt[4]{7}$

5. $5\sqrt{32} + 12\sqrt{18} - 15\sqrt{50} =$

Sol. $-19\sqrt{2}$

6. $\sqrt{7} - 2\sqrt{28} - 12\sqrt{7} =$

Sol. $-15\sqrt{7}$

7. $4\sqrt{2} + 4\sqrt{32} - 5\sqrt{50} =$

Sol. $-5\sqrt{2}$

8. $5\sqrt[3]{-3} + 14\sqrt[3]{-81} - 12\sqrt[3]{-24} =$

Sol. $-23\sqrt[3]{3}$

9. $12\sqrt[4]{3} - 6\sqrt[4]{48} - 6\sqrt[4]{48} =$

Sol. $-12\sqrt[4]{3}$

10. $4\sqrt{75} - 14\sqrt{48} - \sqrt{12} =$

Sol. $-38\sqrt{3}$

11. $15\sqrt[4]{48} + 4\sqrt[4]{3} - 14\sqrt[4]{3} =$

Sol. $20\sqrt[4]{3}$

12. $4\sqrt{3} - 5\sqrt{12} - 13\sqrt{48} =$

Sol. $-58\sqrt{3}$

13. $12\sqrt[3]{-7} - 15\sqrt[3]{-56} - 14\sqrt[3]{-56} =$

Sol. $46\sqrt[3]{7}$

14. $3\sqrt{3} - \sqrt{48} + 6\sqrt{27} =$

Sol. $17\sqrt{3}$

15. $\sqrt[4]{48} - 11\sqrt[4]{3} - 8\sqrt[4]{3} =$

Sol. $-17\sqrt[4]{3}$