

Add | Subtract

IV. Answer Key

1. $8\sqrt{2}$
 2. $-3\sqrt{5}$
 3. $4\sqrt{3} - \sqrt{5}$
 4. $9\sqrt{13}$
 5. $2\sqrt{6} - 6\sqrt{5} + 3\sqrt{3}$
 6. $6\sqrt{35} + 20\sqrt{5} - 8\sqrt{7}$
 7. $4\sqrt{5} + 5\sqrt{3} - 6\sqrt{2}$
 8. $32\sqrt{3} - \cancel{36}\sqrt{7} \longrightarrow$
 9. $-21\sqrt{2} + \cancel{31}\sqrt{3}$
 10. $-4\sqrt{5}$
 11. $3\sqrt{5} + 4\sqrt{2} + \cancel{6\sqrt{10}} - 2\sqrt{30}$
 12. $7\sqrt{3} - 7\sqrt{5} - 2\sqrt{33} - 7\sqrt{5} + 32\sqrt{2}$
 13. 0
 14. $8\sqrt{3} + 7\sqrt{5} + 4\sqrt{15}$
 15. $-\sqrt{11} - 6\sqrt{2} + 14\sqrt{3}$
 16. $54\sqrt{6} + \sqrt{10}$
 17. $70\sqrt{14} - \cancel{12}\sqrt{3} - 6\sqrt{3} - 6\sqrt{2}$
 18. $7\sqrt{5} - \sqrt{10}$
 19. $36 + 4\sqrt{35}$
 20. $\cancel{9\sqrt{2}} - 14\sqrt{30} + 3\sqrt{5} \quad \checkmark$
 21. $18 + 2\sqrt{21}$
 22. $13\sqrt{2} + 2\sqrt{85}$
 23. $20\sqrt{2} + 8\sqrt{5}$
 24. Actual answer is $9\sqrt{5}$; add the coefficients, but do not add the radicands.
 25. No, need to simplify the radicals before comparing the radicands.
- $6\sqrt{208} + 7\sqrt{117}$
 $24\sqrt{13} + 28\sqrt{13}$
 $52\sqrt{13}$