

SM2H 2.4 Radicals 2019-2020

1. $8\sqrt{2}$

2. $8\sqrt{5}$

3. $30\sqrt{6}$

4. Like radicals are radicals with the same radicand and the same index.

5. Timmy is right. Tommy tried to add unlike radicals, which gave him the wrong answer.

6. 10

7. 14

8. $6\sqrt{3} - 3\sqrt{7}$

9. $14\sqrt{5}$

10. $4\sqrt[3]{10} - 2\sqrt[3]{7}$

11. $\sqrt{3} + 2\sqrt[3]{3} + 2\sqrt[3]{2}$

12. $2\sqrt[3]{3}$

13. $5\sqrt[4]{8} - 8\sqrt[4]{3}$

14. $-14\sqrt{2} - 3\sqrt{5}$

15. $18\sqrt[3]{2} + 4\sqrt{3} - 20\sqrt{5}$

16. $9\sqrt{2}x^2 + \sqrt{5}x$

17. $5\sqrt{7}x - 12$

18. $40x + 15$

19. $9x + 18$

20. $-5x - 14$

21. $5\sqrt{2} + 2$

22. $3\sqrt{30} - 3\sqrt{35}$

23. $6\sqrt{5} - 4$

24. $3 - 4\sqrt[3]{30}$

25. $4 + 3\sqrt{6}$

26. $6\sqrt{6} - 2\sqrt{10} + 3\sqrt{21} - \sqrt{35}$

27. -2

28. -41

29. $23 + 8\sqrt{7}$

30. $65 - 20\sqrt{10}$

31. $\frac{2\sqrt{5}}{5}$

32. $\frac{4\sqrt{35}}{5}$

33. $\frac{\sqrt{10}}{2}$

34. $3\sqrt{2}$

35. $2\sqrt{15}$

36. $\frac{6\sqrt{2} + 5\sqrt{6}}{6}$

37. $3 + \sqrt{x}$

38. $3 - 5\sqrt{2}$

39. $-7 + 5\sqrt{3}$

40. $\sqrt{15} + 2\sqrt{3}$

41. $\frac{4\sqrt{5} - \sqrt{15}}{13}$

42. $\frac{-16 + 4\sqrt{5}}{11}$

43. $6 - 3\sqrt{5} - 2\sqrt{3} + \sqrt{15}$

44. $\frac{\sqrt{3} + 17}{13}$

45. 1

46. $14\sqrt{5}$

47. $3\sqrt{30} - 3\sqrt{35}$

48. $6\sqrt{6} - 2\sqrt{10} + 3\sqrt{21} - \sqrt{35}$

49. $7x^8$

50. $\frac{5}{x}$

51. $\frac{1}{x^{12}}$

52. x^2

53. $2x$