

SM2H 2.3 Simplifying Radicals Multiplying, Adding, and Subtracting Radicals 2019-2020

1. 9

2.  $4x^3y^4$

3.  $-3\sqrt{2}$

4. -5

5.  $2xy^2\sqrt{7x}$

6.  $26\sqrt{2}$

7.  $-15x^2\sqrt{3x}$

8. undefined or  $2i\sqrt{2}$

9.  $54x^2y^8\sqrt{2x}$

10.  $2x^4y^4z\sqrt[3]{3}$

11. 10

12.  $2\sqrt{3}$

13. 21

14. 12

15.  $144y$

16. 4

17.  $2\sqrt[4]{3}$

18.  $xy^3\sqrt[3]{xy}$

19.  $10x^2y$

20.  $11\sqrt{3}$

21.  $-5\sqrt{2} + 2\sqrt{3}$

22.  $5\sqrt{3}$

23.  $23\sqrt{2}$

24.  $2\sqrt{3} + 5\sqrt{2} - 2\sqrt{5}$

25.  $3\sqrt{3}$

26.  $3 - \sqrt[3]{3}$

27.  $\sqrt[4]{2} + \sqrt[4]{3}$

28. -12

29.  $-7\sqrt{5}$

30.  $60\sqrt{2}$

31.  $3\sqrt[3]{3}$

32.  $-42\sqrt{22}$

33. 245

34.  $24x\sqrt[3]{2}$

35. 44

36.  $2\sqrt[3]{4}$

37.  $13\sqrt[3]{7} - 3\sqrt{7}$

38.  $-2x^6y^2$

39.  $3x^2\sqrt[4]{10x}$

40.  $\sqrt[3]{y^5} = y\sqrt[3]{y^2}$

41.  $7\sqrt[4]{x^5} = 7x\sqrt[4]{x}$

42.  $\sqrt[6]{p^5}$

43. 8

44. 16

45.  $(pq)^{1/5}$

46.  $4x^{2/3}$

47.  $\frac{1}{y^{1/2}}$

48.  $x^{3/5}$

49.  $\frac{1}{n^{3/4}}$