

Radicals:

1. $\sqrt[4]{243}$

2. $\sqrt[3]{-125}$

3. $\sqrt[5]{(x+2)^7}$

4. $x^{\frac{9}{4}}$

5. $(x^7y^{11})^{\frac{1}{3}}$

6. $(3x+4)^{\frac{7}{3}}$

7. $\sqrt[4]{32x^7}$

8. $\sqrt[5]{160x^{24}y^{11}}$

9. $\sqrt[6]{x^3}$

10. $\sqrt[12]{x^6}$

11. $5\sqrt{x} + 7\sqrt{x}$

12. $6\sqrt[7]{x} - 3\sqrt[7]{x} + \sqrt[7]{x}$

13. $7\sqrt[3]{x} - 2\sqrt[6]{x^2}$

14. $3\sqrt[4]{x} + 6\sqrt{x} - 3(2\sqrt[4]{x} - 5\sqrt{x})$

15. $3\sqrt{8x} - 4\sqrt{2x}$

16. $-2\sqrt[3]{16x^4} + 5x\sqrt[3]{54x}$

17. $2\sqrt{5x}(4\sqrt{5x} - 2)$

18. $4\sqrt{3x}(2\sqrt{x} + 5\sqrt{3})$

19. $(2\sqrt{x} - 3)(2\sqrt{x} + 3)$

20. $(5\sqrt{x} + 2)(3\sqrt{x} - 1)$

21. $(-3\sqrt{x})\sqrt[3]{x}$

22. $\sqrt{xy} \cdot \sqrt[3]{x^2y} \cdot \sqrt[4]{x^3y^5}$

23. $\frac{5}{7\sqrt{x}}$

24. $\frac{2}{\sqrt{8x}}$

25. $\frac{2}{\sqrt[5]{x^3y^2}}$

26. $\frac{6}{\sqrt[4]{32x^9y^{13}}}$

27. $\sqrt[4]{\frac{7}{4x^3}}$

28. $\frac{\sqrt[3]{25xy^2}\sqrt{5xy}}{\sqrt[4]{125x^3y^{-2}}}$

29. $\frac{5}{\sqrt{x} - 5}$

30. $\frac{\sqrt{x} - 2}{3\sqrt{x} + 1}$

31. $\sqrt{x} - 5 = 0$

32. $3\sqrt{x} + 21 = 4$

33. $2\sqrt{x} - 12 = -7\sqrt{x} + 16$

34. $\sqrt{13+4x} = x+4$

35. $\sqrt{3x+4} - \sqrt{2x-4} = 2$

36. $\sqrt{\sqrt{x}+1} = 3$