

### Radicals Expressed in Simplified Form

1.  $\sqrt{50}$

2.  $\sqrt{98}$

3.  $\sqrt{128}$

4.  $\sqrt{250}$

5.  $\sqrt[3]{16}$

6.  $\sqrt[3]{250}$

7.  $\sqrt[3]{320}$

8.  $\sqrt[3]{375}$

9.  $\sqrt[4]{80}$

10.  $\sqrt[4]{1250}$

11.  $\sqrt[5]{192}$

12.  $\sqrt[5]{1701}$

13.  $\sqrt{x^4}$

14.  $\sqrt{x^3y^6}$

15.  $\sqrt{x^5y^3z^2}$

16.  $\sqrt{x^9y^6z^7}$

17.  $\sqrt[3]{x^7}$

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

19.  $\sqrt[3]{x^6y^9z^4}$

20.  $\sqrt[3]{x^4y^{11}z^9}$

21.  $\sqrt[4]{x^8y^4}$

22.  $\sqrt[4]{x^5y^6}$

23.  $\sqrt[4]{x^9y^{11}z^6}$

24.  $\sqrt[5]{x^6y^{11}}$

25.  $\sqrt[5]{x^{13}y^7z^4}$

26.  $\sqrt[6]{x^8y^{12}z^{13}}$

27.  $\sqrt[3]{625x^4}$

28.  $\sqrt[4]{81x^6y^7}$

29.  $\sqrt[4]{32x^6y^5z^7}$

30.  $\sqrt[3]{243x^7y^9}$

31.  $\sqrt[5]{3125x^7y^2z^{10}}$

32.  $\sqrt[5]{256x^7y^6z^3}$

33.  $25^{\frac{1}{2}}$

34.  $36^{\frac{1}{2}}$

35.  $81^{\frac{1}{4}}$

36.  $64^{\frac{1}{3}}$

37.  $16^{\frac{5}{2}}$

38.  $49^{\frac{3}{2}}$

39.  $81^{\frac{3}{4}}$

40.  $625^{\frac{5}{4}}$

41.  $243^{\frac{2}{5}}$

42.  $16^{\frac{7}{4}}$

43.  $4^{-\frac{1}{2}}$

44.  $64^{-\frac{1}{2}}$

45.  $32^{-\frac{3}{5}}$

46.  $625^{-\frac{3}{4}}$

47.  $8^{-\frac{7}{3}}$

48.  $576^{-\frac{3}{2}}$

49.  $\frac{1}{\sqrt{2}}$

50.  $\frac{1}{\sqrt{x}}$

51.  $\frac{2}{\sqrt{3}}$

52.  $\frac{3}{\sqrt{y}}$

53.  $\frac{1}{\sqrt{5x}}$

54.  $\frac{4}{\sqrt{2x}}$

55.  $\frac{3}{\sqrt{5xy}}$

56.  $\frac{2}{5\sqrt{x}}$

57.  $\frac{1}{\sqrt[3]{x}}$

58.  $\frac{1}{\sqrt[3]{x^2}}$

59.  $\frac{1}{\sqrt[4]{x}}$

60.  $\frac{1}{\sqrt[4]{x^2}}$

61.  $\frac{1}{\sqrt[5]{x}}$

62.  $\frac{1}{\sqrt[5]{x^3}}$

63.  $\frac{1}{\sqrt[5]{x^4}}$

64.  $\frac{1}{\sqrt[6]{x^2}}$

65.  $\frac{1}{\sqrt[6]{x^3}}$

66.  $\frac{1}{\sqrt[7]{x^3}}$

67.  $\frac{1}{\sqrt[8]{x^5}}$

68.  $\frac{1}{\sqrt[10]{x^6}}$

69.  $\frac{2}{\sqrt{xy}}$

70.  $\frac{3}{\sqrt{x^3y}}$

71.  $\frac{2}{\sqrt{x^5y^7}}$

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

73.  $\frac{4}{\sqrt[3]{x^4y^2}}$

74.  $\frac{2}{\sqrt[4]{x^3y^5}}$

75.  $\frac{2}{\sqrt[5]{x^2y^4}}$

76.  $\frac{1}{\sqrt[6]{x^4y^7}}$

77.  $\frac{2}{\sqrt[6]{x^5y^9z}}$

78.  $\frac{3}{\sqrt[7]{x^2y^{11}}}$

79.  $\frac{4}{\sqrt[7]{x^9y^3z^{12}}}$

80.  $\frac{2}{\sqrt[10]{x^3y^{13}z^{21}}}$

81.  $\frac{1}{(x^3y)^{\frac{1}{2}}}$

82.  $\frac{2}{(x^4y)^{\frac{1}{3}}}$

83.  $\frac{2}{(x^3y^5z)^{\frac{1}{4}}}$

84.  $\frac{3}{(x^2y^7z^3)^{\frac{1}{5}}}$

85.  $\frac{1}{(x^2y^4)^{\frac{2}{3}}}$

86.  $\frac{2}{(x^5y^3)^{\frac{3}{4}}}$

87.  $\frac{3}{(xy^6z^4)^{\frac{5}{6}}}$

88.  $\frac{1}{(xy^2z^{11})^{\frac{3}{7}}}$

89.  $\left(x^{\frac{1}{2}} + y^{\frac{1}{2}}\right)\left(x^{\frac{1}{2}} - y^{\frac{1}{2}}\right)$

90.  $\left(x^{\frac{3}{2}} + y^{\frac{1}{2}}\right)\left(x^{\frac{3}{2}} - y^{\frac{1}{2}}\right)$

91.  $\left(x^{\frac{2}{3}} + y^{\frac{1}{3}}\right)\left(x^{\frac{2}{3}} - y^{\frac{1}{3}}\right)$

92.  $\left(x^{\frac{1}{2}} + y^{\frac{1}{3}}\right)\left(x^{\frac{1}{2}} + y^{\frac{1}{3}}\right)$

93.  $\left(2x^{\frac{1}{2}} + 3y^{\frac{1}{2}}\right)\left(x^{\frac{1}{2}} + y^{\frac{1}{2}}\right)$

94.  $\left(5x^{\frac{1}{3}} - 3y^{\frac{1}{2}}\right)\left(x^{\frac{1}{3}} - 2y^{\frac{1}{2}}\right)$

95.  $\left(x^{\frac{1}{2}} + y^{\frac{1}{2}}\right)^2$

96.  $\left(x^{\frac{2}{3}} - y^{\frac{1}{4}}\right)^2$