

☺ *Change to index form.*

(1)  $\sqrt[3]{x}$

(2)  $\sqrt[5]{y^2}$

(3)  $\sqrt[11]{h^3}$

(4)  $\sqrt[4]{a^3}$

(5)  $\sqrt[7]{b^3}$

☺ *Change to square root form.*

(6)  $\frac{1}{\sqrt[3]{x^2}}$

(7)  $\frac{1}{\sqrt[4]{y^3}}$

(8)  $\frac{1}{\sqrt[5]{a^2}}$

(9)  $\frac{1}{\sqrt[7]{b^3}}$

(10)  $\frac{1}{\sqrt[9]{c^5}}$

☺ Change to square root form.

(11)  $a^{\frac{2}{3}}$

(12)  $b^{\frac{3}{5}}$

(13)  $c^{\frac{1}{4}}$

(14)  $x^{\frac{5}{13}}$

(15)  $y^{\frac{5}{8}}$

☺ Change to square root form.

(16)  $x^{-\frac{1}{3}}$

(17)  $y^{\frac{2}{5}}$

(18)  $z^{-\frac{1}{4}}$

(19)  $a^{-\frac{2}{3}}$

(20)  $b^{-\frac{4}{5}}$

☺ Change to index form.

$$(21) \sqrt[3]{ab^2}$$

$$(22) \sqrt[5]{a^2b^3}$$

$$(23) \sqrt[7]{x^2y^4}$$

$$(24) \sqrt[13]{c^3d^5}$$

$$(25) \sqrt[11]{x^6y^5}$$

☺ Change to index form.

$$(26) \frac{1}{\sqrt[4]{ab^3}}$$

$$(27) \frac{1}{\sqrt[5]{x^3y^2}}$$

$$(28) \frac{1}{\sqrt[7]{a^2b^5}}$$

$$(29) \frac{1}{\sqrt[9]{x^7y^5}}$$

$$(30) \frac{1}{\sqrt[3]{cd^2}}$$

☺ Change to square root form.

(31)  $(ab)^{\frac{4}{5}}$

(32)  $(cd)^{\frac{1}{2}}$

(33)  $(xy)^{\frac{5}{6}}$

(34)  $(hk)^{\frac{2}{3}}$

(35)  $(fg)^{\frac{3}{4}}$

☺ Change to square root form.

(36)  $(ab)^{-\frac{3}{4}}$

(37)  $(cd)^{-\frac{2}{7}}$

(38)  $(gh)^{-\frac{1}{5}}$

(39)  $(xy)^{-\frac{4}{5}}$

(40)  $(mn)^{-\frac{2}{3}}$

☺ Evaluate the following.

(41)  $16^{\frac{3}{2}}$

(42)  $4^{\frac{5}{2}}$

(43)  $9^{\frac{3}{2}}$

(44)  $27^{\frac{2}{3}}$

(45)  $64^{\frac{2}{3}}$

☺ Evaluate the following.

(46)  $125^{-\frac{1}{3}}$

(47)  $16^{-\frac{3}{4}}$

(48)  $32^{-\frac{2}{5}}$

(49)  $81^{-\frac{3}{2}}$

(50)  $100^{-\frac{3}{2}}$

☺ Evaluate the following.

$$(51) \frac{1}{4^{\frac{1}{2}}}$$

$$(52) \frac{1}{16^{-\frac{3}{4}}}$$

$$(53) \frac{1}{25^{-\frac{2}{3}}}$$

$$(54) \frac{1}{121^{\frac{1}{2}}}$$

$$(55) \frac{1}{27^{-\frac{4}{3}}}$$

☺ Evaluate the following.

$$(56) \frac{25^{\frac{1}{2}}}{16^{\frac{3}{4}}}$$

$$(57) \frac{9^{-\frac{1}{2}}}{100^{-\frac{1}{2}}}$$

$$(58) \frac{27^{\frac{2}{3}}}{32^{-\frac{2}{5}}}$$

$$(59) \frac{64^{-\frac{2}{3}}}{81^{\frac{3}{4}}}$$

$$(60) \frac{49^{\frac{3}{2}}}{125^{-\frac{1}{3}}}$$

☺ Evaluate the following.

$$(61) \frac{32^{\frac{2}{5}}}{4^{\frac{1}{2}} + 27^{\frac{2}{3}}}$$

$$(62) \frac{36^{\frac{1}{2}}}{9^{\frac{1}{2}} - 16^{\frac{1}{4}}}$$

$$(63) \frac{8^{\frac{1}{3}} + 27^{\frac{1}{3}}}{16^{-\frac{3}{4}}}$$

$$(64) \frac{49^{\frac{1}{2}} - 64^{\frac{1}{3}}}{64^{-\frac{2}{3}}}$$

$$(65) \frac{27^{\frac{2}{3}} - 81^{\frac{1}{4}}}{1000^{\frac{1}{3}} + 81^{\frac{1}{2}}}$$

☺ Evaluate the following.

$$(66) \frac{16^{\frac{3}{4}}}{4^{\frac{3}{2}} + 32^{\frac{2}{5}}}$$

$$(67) \frac{8^{\frac{4}{3}}}{16^{\frac{3}{4}} - 25^{\frac{1}{2}}}$$

$$(68) \frac{81^{\frac{1}{4}} + 27^{\frac{2}{3}}}{121^{\frac{1}{2}}}$$

$$(69) \frac{144^{\frac{1}{2}} - 64^{\frac{2}{3}}}{128^{\frac{5}{7}}}$$

$$(70) \frac{64^{\frac{2}{3}} - 81^{\frac{3}{4}}}{343^{\frac{2}{3}} + 216^{\frac{2}{3}}}$$