

$$1) \sqrt[3]{108} = \sqrt[3]{27} \sqrt[3]{4} = 3\sqrt[3]{4}$$

$$2) \sqrt[3]{-125} = -5$$

$$3) \sqrt{80} = \sqrt{16} \sqrt{5} = 4\sqrt{5}$$

$$4) \sqrt[5]{128} = \sqrt[5]{32} \sqrt[5]{4} = 2\sqrt[5]{4}$$

$$5) \sqrt[4]{243} = \sqrt[4]{81} \sqrt[4]{3} = 3\sqrt[4]{3}$$

$$6) \sqrt[3]{x^{10}y^8} = \sqrt[3]{x^9y^6} \sqrt[3]{xy^2} = x^3y^2 \sqrt[3]{xy^2}$$

$$7) \sqrt[4]{x^{18}y^{13}z^7} = \sqrt[4]{x^{16}y^{12}z^4} \sqrt[4]{x^2y^1z^3} = x^4y^3z \sqrt[4]{x^2yz^3}$$

$$8) \sqrt{xy^{10}z^5} = \sqrt{y^{10}z^4} \sqrt{xz} = y^5z^2 \sqrt{xz}$$

$$9) \sqrt[5]{x^{29}z^{36}} = \sqrt[5]{x^{25}z^{35}} \sqrt[5]{x^4z} = x^5z^7 \sqrt[5]{x^4z}$$

$$10) \sqrt[4]{x^2y^{27}z^{15}} = \sqrt[4]{y^{24}z^{12}} \sqrt[4]{x^2y^3z^3} = y^6z^3 \sqrt[4]{x^2y^3z^3}$$

$$11) \sqrt[4]{81x^6y^8} = \sqrt[4]{81x^4y^8} \sqrt[4]{x^2} = 3xy^2 \sqrt[4]{x^2}$$

$$12) \sqrt{16x^4y^5z^9} = \sqrt{16x^4y^4z^8} \sqrt{yz} = 4x^2y^2z^4 \sqrt{yz}$$

$$13) \sqrt[6]{54x^{13}y^6} = \sqrt[6]{x^{12}y^6} \sqrt[6]{54x} = x^2y \sqrt[6]{54x}$$

Als II

1-6A Support

②  
09/14/2017

$$14) \sqrt[3]{40x^{10}y^{12}z^{17}} = \sqrt[3]{8x^9y^{12}z^{15}} \sqrt[3]{5xz^2} = 2x^3y^4z^5 \sqrt[3]{5xz^2}$$

$$15) \sqrt[4]{8x^{21}y^{15}z^{12}} = \sqrt[4]{x^{20}y^{12}z^{12}} \sqrt[4]{8xy^3} = x^5y^3z^3 \sqrt[4]{8xy^3}$$