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$$1) \sqrt[40]{1,296^{10}} \rightarrow 6.4$$

$$\sqrt[0.25]{1296} = 6$$

$$2) \sqrt[5]{100,000^5} \rightarrow 1000,000 \quad 10$$

$$\sqrt[5]{100,000} = 100,000$$

$$3) \sqrt[3]{24,389^0} \rightarrow 10.4$$

$$\sqrt[3]{1} = 1$$

$$4) \sqrt{24^4} \rightarrow 441.54$$

$$\sqrt{21^2} = 441$$

$$5) \sqrt[36]{4,096^9} \rightarrow 8.15$$

$$\sqrt[9/36]{4096} = \sqrt[1/2]{4096} = \sqrt{4096} = 8$$

$$6) \sqrt[10]{4^{25}} \rightarrow 15.32$$

$$\sqrt[25/10]{4} = \sqrt[5/2]{4} = \sqrt{4^{2.5}} = 32$$

$$7) \sqrt[3]{2197^3} = 2197 \rightarrow 150 \quad 2197$$





$$8) \sqrt[40]{32,768^\circ} \rightarrow 16$$

$$\sqrt{1} = 1$$

$$9) \sqrt[8]{12^{16}} = \sqrt[15]{12^{\frac{15}{8}}} = \sqrt[2]{12^{\frac{2}{1}}} = \sqrt{12^2} = 144$$

$$\downarrow 144$$

$$10) \sqrt[9]{8^{67^\circ}} \rightarrow 0.4$$

$$\sqrt{1} = 1$$

$$11) \sqrt{25^4} = \sqrt{25^2} = 625$$

$$\downarrow 125 \quad 625$$

$$12) \sqrt[56]{2,187^{24}} = \sqrt[24]{2,187^{\frac{24}{56}}} = \sqrt[3]{2187^{\frac{3}{7}}} = \sqrt[0.93]{2187} = 27$$

$$\downarrow 3 \quad 27$$