Name

Exponents - Negative Fractional Exponents with Non-Square Integer Base - Exponent to Simplified Radical

1 Find the answer when this number is raised to its exponent

$72^{\left(\frac{-1}{2}\right)}$

A $\frac{1}{6\sqrt{3}}$ B $\frac{1}{3\sqrt{2}}$ C $\frac{1}{6\sqrt{4}}$

D $\frac{1}{2\sqrt{2}}$ E $\frac{1}{6\sqrt{2}}$ F $\frac{1}{\sqrt{2}}$

2 Find the answer when this number is raised to its exponent

$20^{\left(\frac{-1}{2}\right)}$

A $\frac{1}{2}$ B $\frac{1}{5\sqrt{5}}$ C $\frac{1}{\sqrt{5}}$

D $\frac{1}{4\sqrt{5}}$ E $\frac{1}{2\sqrt{5}}$ F $\frac{1}{2\sqrt{4}}$

3 Find the answer when this number is raised to its exponent

$32^{\left(\frac{-1}{3}\right)}$

A $\frac{1}{2\sqrt[3]{4}}$ B $\frac{1}{2}$ C $\frac{1}{5\sqrt[3]{4}}$

D $\frac{1}{2\sqrt[3]{3}}$ E $\frac{1}{4\sqrt[3]{4}}$ F $\frac{1}{\sqrt[3]{4}}$

4 Find the answer when this number is raised to its exponent

$180^{\left(\frac{-1}{2}\right)}$

A $\frac{1}{6\sqrt{4}}$ B $\frac{1}{\sqrt{5}}$ C $\frac{1}{3\sqrt{5}}$

D $\frac{1}{4\sqrt{5}}$ E $\frac{1}{6}$ F $\frac{1}{6\sqrt{5}}$

5 Find the answer when this number is raised to its exponent

$75^{\left(\frac{-1}{2}\right)}$

A $\frac{1}{3\sqrt{3}}$ B $\frac{1}{2\sqrt{3}}$ C $\frac{1}{5}$

D $\frac{1}{5\sqrt{3}}$ E $\frac{1}{5\sqrt{2}}$ F $\frac{1}{\sqrt{3}}$

6 Find the answer when this number is raised to its exponent

$96^{\left(\frac{-1}{2}\right)}$

A $\frac{1}{4\sqrt{6}}$ B $\frac{1}{4\sqrt{2}}$ C $\frac{1}{5\sqrt{6}}$

D $\frac{1}{4}$ E $\frac{1}{\sqrt{6}}$ F $\frac{1}{3\sqrt{6}}$

7 Find the answer when this number is raised to its exponent

$144^{\left(\frac{-1}{2}\right)}$

A $\frac{1}{12\sqrt{2}}$ B $\frac{1}{12\sqrt{4}}$ C $\frac{1}{3}$

D $\frac{1}{1}$ E $\frac{1}{12\sqrt{3}}$ F $\frac{1}{12}$

8 Find the answer when this number is raised to its exponent

$54^{\left(\frac{-1}{3}\right)}$

A $\frac{1}{3}$ B $\frac{1}{3\sqrt[3]{4}}$ C $\frac{1}{3\sqrt[3]{2}}$

D $\frac{1}{4\sqrt[3]{2}}$ E $\frac{1}{5\sqrt[3]{2}}$ F $\frac{1}{\sqrt[3]{2}}$