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

$16^{\left(\frac{-1}{2}\right)}$

A $\frac{1}{2}$ B $\frac{1}{1}$ C $\frac{1}{4}$

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

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

$108^{\left(\frac{-1}{2}\right)}$

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

D $\frac{1}{4\sqrt{3}}$ E $\frac{1}{5\sqrt{3}}$ F $\frac{1}{6\sqrt{3}}$

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

$32^{\left(\frac{-1}{2}\right)}$

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

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

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

$80^{\left(\frac{-1}{2}\right)}$

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

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

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

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

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

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

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

$50^{\left(\frac{-1}{2}\right)}$

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

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

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

$100^{\left(\frac{-1}{2}\right)}$

A $\frac{1}{3}$ B $\frac{1}{10}$ C $\frac{1}{1}$

D $\frac{1}{10\sqrt{4}}$ E $\frac{1}{4}$ F $\frac{1}{5}$

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

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

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

D $\frac{1}{3\sqrt{2}}$ E $\frac{1}{6\sqrt{3}}$ F $\frac{1}{\sqrt{2}}$