Name

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

1 Find the radical that is the same as this number raised to its exponent

$9^{\left(\frac{-1}{2}\right)}$

A $\frac{1}{\sqrt{9}}$ B $\frac{1}{1}$ C $\frac{1}{5\sqrt{9}}$

D $\frac{1}{4\sqrt{9}}$ E $\frac{1}{3\sqrt{9}}$ F $\frac{1}{\sqrt{9}^{2}}$

2 Find the radical that is the same as this number raised to its exponent

$81^{\left(\frac{-1}{4}\right)}$

A $\sqrt[4]{81}$ B $\frac{1}{2\sqrt[4]{81}}$ C $\frac{1}{1}$

D $\frac{1}{\sqrt[4]{81}}$ E $\sqrt[4]{81}^{4}$ F $\frac{1}{\sqrt[4]{81}^{2}}$

3 Find the radical that is the same as this number raised to its exponent

$32^{\left(\frac{-1}{5}\right)}$

A $\frac{1}{\sqrt[5]{4}}$ B $\frac{1}{\sqrt[5]{32}^{2}}$ C $\frac{1}{2\sqrt[5]{32}}$

D $\frac{1}{1}$ E $\frac{1}{\sqrt[5]{32}}$ F $\sqrt[5]{32}$

4 Find the radical that is the same as this number raised to its exponent

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

A $\frac{1}{1}$ B $\sqrt{16}$ C $\frac{1}{\sqrt{16}}$

D $\frac{1}{5\sqrt{16}}$ E $\frac{1}{\sqrt{16}^{2}}$ F $\frac{1}{3\sqrt{16}}$

5 Find the radical that is the same as this number raised to its exponent

$16^{\left(\frac{-1}{4}\right)}$

A $\frac{1}{4\sqrt[4]{16}}$ B $\frac{1}{\sqrt[4]{2}}$ C $\frac{1}{2\sqrt[4]{16}}$

D $\frac{1}{1}$ E $\frac{1}{3\sqrt[4]{16}}$ F $\frac{1}{\sqrt[4]{16}}$

6 Find the radical that is the same as this number raised to its exponent

$4^{\left(\frac{-1}{2}\right)}$

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

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

7 Find the radical that is the same as this number raised to its exponent

$27^{\left(\frac{-1}{3}\right)}$

A $\frac{1}{5\sqrt[3]{27}}$ B $\frac{1}{\sqrt[3]{3}}$ C $\frac{1}{1}$

D $\frac{1}{\sqrt[3]{2}}$ E $\frac{1}{\sqrt[3]{27}}$ F $\frac{1}{4\sqrt[3]{27}}$

8 Find the radical that is the same as this number raised to its exponent

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

A $\frac{1}{\sqrt[3]{125}^{2}}$ B $\frac{1}{4\sqrt[3]{125}}$ C $\sqrt[3]{125}$

D $\frac{1}{1}$ E $\sqrt[3]{125}^{3}$ F $\frac{1}{\sqrt[3]{125}}$