Name

Exponents - Negative Fractional Exponents with Fractional Base

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

$$\left(\frac{4}{25}\right)^{\left(\frac{-1}{2}\right)}$$

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

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

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

$$\left(\frac{49}{4}\right)^{\left(\frac{-1}{2}\right)}$$

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

D $\frac{2}{2}$ E $\frac{2\sqrt{3}}{3}$ F $\frac{2}{7}$

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

$$\left(\frac{25}{49}\right)^{\left(\frac{-1}{2}\right)}$$

A $\frac{7}{5}$ B $7\sqrt{3}$ C $\frac{1}{4}$

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

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

$$\left(\frac{4}{49}\right)^{\left(\frac{-1}{2}\right)}$$

A $\frac{7}{2}$ B 2 C $\frac{1}{2}$

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

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

$$\left(\frac{49}{9}\right)^{\left(\frac{-1}{2}\right)}$$

A $3\sqrt{4}$ B 5 C 3

D 1 E 2 F $\frac{3}{7}$

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

$$\left(\frac{9}{49}\right)^{\left(\frac{-1}{2}\right)}$$

A 1 B $\frac{7}{3}$ C 3

D $7\sqrt{4}$ E 7 F $\frac{7\sqrt{3}}{3}$

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

$$\left(\frac{9}{121}\right)^{\left(\frac{-1}{2}\right)}$$

A $11\sqrt{3}$ B $\frac{4}{3}$ C $\frac{1}{2}$

D 1 E $\frac{11\sqrt{3}}{3}$ F $\frac{11}{3}$

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

$$\left(\frac{4}{9}\right)^{\left(\frac{-1}{2}\right)}$$

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

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