



Exponents - Negative Fractional Exponents with Integer Base -

Explanation to Answer

1

Given the hint, what is the fractional exponent the same as?

$$36^{(-\frac{1}{2})} \cdot 36^{(\frac{1}{2})} = \frac{1}{36}$$

$$36^{(-\frac{1}{2})} = ?$$

- | | | | | | |
|--------------------|-----------------|-------------------|-----------------|------------------|-----------------|
| A $\frac{1}{36^2}$ | B $\frac{1}{7}$ | C $\frac{1}{6^2}$ | D $\frac{1}{6}$ | E $\sqrt[3]{36}$ | F $\frac{1}{5}$ |
|--------------------|-----------------|-------------------|-----------------|------------------|-----------------|

2

Given the hint, what is the fractional exponent the same as?

$$9^{(-\frac{1}{2})} \cdot 9^{(\frac{1}{2})} = \frac{1}{9}$$

$$9^{(-\frac{1}{2})} = ?$$

- | | | |
|-------------------|-------------------|-----------------|
| A $\frac{1}{3^2}$ | B $\frac{1}{9^2}$ | C $\frac{1}{2}$ |
| D $\frac{1}{3}$ | E $\frac{1}{4}$ | F $\sqrt[3]{9}$ |

3

Given the hint, what is the fractional exponent the same as?

$$25^{(-\frac{1}{2})} \cdot 25^{(\frac{1}{2})} = \frac{1}{25}$$

$$25^{(-\frac{1}{2})} = ?$$

- | | | | | | |
|-----------------|--------------------|------------------|-------------------|-----------------|-----------------|
| A $\frac{1}{5}$ | B $\frac{1}{25^2}$ | C $\sqrt[3]{25}$ | D $\frac{1}{5^2}$ | E $\frac{1}{4}$ | F $\frac{1}{6}$ |
|-----------------|--------------------|------------------|-------------------|-----------------|-----------------|

4

Given the hint, what is the fractional exponent the same as?

$$16^{(-\frac{1}{2})} \cdot 16^{(\frac{1}{2})} = \frac{1}{16}$$

$$16^{(-\frac{1}{2})} = ?$$

- | | | | | | |
|-----------------|-------------------|--------------------|-----------------|-----------------|------------------|
| A $\frac{1}{3}$ | B $\frac{1}{4^2}$ | C $\frac{1}{16^2}$ | D $\frac{1}{4}$ | E $\frac{1}{5}$ | F $\sqrt[3]{16}$ |
|-----------------|-------------------|--------------------|-----------------|-----------------|------------------|

5

Given the hint, what is the fractional exponent the same as?

$$4^{(-\frac{1}{2})} \cdot 4^{(\frac{1}{2})} = \frac{1}{4}$$

$$4^{(-\frac{1}{2})} = ?$$

- | | | |
|-----------------|-------------------|-------------------|
| A $\frac{1}{1}$ | B $\frac{1}{2}$ | C $\frac{1}{3}$ |
| D $\sqrt[3]{4}$ | E $\frac{1}{2^2}$ | F $\frac{1}{4^2}$ |