



Exponents - Negative Fractional Exponents with Non-Square Integer Base - Exponent to Factored Exponent

1 Factor the base number and simplify to make it easier to solve

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

A $\frac{1}{(2 \cdot 3 \cdot 5 \cdot 5)^{(\frac{1}{2})}}$	B $\frac{1}{(2 \cdot 5 \cdot 5)^{(\frac{1}{2})}}$
C $\frac{1}{(2 \cdot 5 \cdot 5 \cdot 5)^{(\frac{1}{2})}}$	D $\frac{1}{(2 \cdot 5 \cdot 5 \cdot 7)^{(\frac{1}{2})}}$
E $\frac{1}{(2 \cdot 5 \cdot 5 \cdot 13)^{(\frac{1}{2})}}$	F $\frac{1}{(2 \cdot 2 \cdot 5 \cdot 5)^{(\frac{1}{2})}}$

2 Factor the base number and simplify to make it easier to solve

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

A $\frac{1}{(2 \cdot 2 \cdot 3 \cdot 3 \cdot 7)^{(\frac{1}{2})}}$	B $\frac{1}{(2 \cdot 2 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$
C $\frac{1}{(2 \cdot 2 \cdot 9)^{(\frac{1}{2})}}$	D $\frac{1}{(2 \cdot 2 \cdot 3 \cdot 3 \cdot 11)^{(\frac{1}{2})}}$
E $\frac{1}{(2 \cdot 6 \cdot 3)^{(\frac{1}{2})}}$	F $\frac{1}{(2 \cdot 2 \cdot 3 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$

3 Factor the base number and simplify to make it easier to solve

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

A $\frac{1}{(3 \cdot 5 \cdot 5 \cdot 13)^{(\frac{1}{2})}}$	B $\frac{1}{(3 \cdot 5 \cdot 5)^{(\frac{1}{2})}}$
C $\frac{1}{(3 \cdot 3 \cdot 5 \cdot 5)^{(\frac{1}{2})}}$	D $\frac{1}{(2 \cdot 3 \cdot 5 \cdot 5)^{(\frac{1}{2})}}$
E $\frac{1}{(3 \cdot 5 \cdot 5 \cdot 7)^{(\frac{1}{2})}}$	F $\frac{1}{(3 \cdot 5 \cdot 5 \cdot 5)^{(\frac{1}{2})}}$

4 Factor the base number and simplify to make it easier to solve

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

A $\frac{1}{(2 \cdot 4 \cdot 2 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$	B $\frac{1}{(2 \cdot 2 \cdot 4 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$
C $\frac{1}{(2 \cdot 2 \cdot 2 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$	D $\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$
E $\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$	F $\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3 \cdot 5)^{(\frac{1}{2})}}$

5 Factor the base number and simplify to make it easier to solve

$54^{(-\frac{1}{2})}$

A $\frac{1}{(2 \cdot 2 \cdot 3 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$	B $\frac{1}{(2 \cdot 3 \cdot 3 \cdot 3 \cdot 13)^{(\frac{1}{2})}}$
C $\frac{1}{(2 \cdot 3 \cdot 3 \cdot 3 \cdot 5)^{(\frac{1}{2})}}$	D $\frac{1}{(2 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$
E $\frac{1}{(2 \cdot 9 \cdot 3)^{(\frac{1}{2})}}$	F $\frac{1}{(2 \cdot 3 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$

6 Factor the base number and simplify to make it easier to solve

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

A $\frac{1}{(2 \cdot 3 \cdot 3 \cdot 3 \cdot 13)^{(\frac{1}{3})}}$	B $\frac{1}{(2 \cdot 2 \cdot 3 \cdot 3 \cdot 3)^{(\frac{1}{3})}}$
C $\frac{1}{(2 \cdot 3 \cdot 9)^{(\frac{1}{3})}}$	D $\frac{1}{(2 \cdot 3 \cdot 3 \cdot 3 \cdot 5)^{(\frac{1}{3})}}$
E $\frac{1}{(2 \cdot 9 \cdot 3)^{(\frac{1}{3})}}$	F $\frac{1}{(2 \cdot 3 \cdot 3 \cdot 3)^{(\frac{1}{3})}}$

7 Factor the base number and simplify to make it easier to solve

$18^{(-\frac{1}{2})}$

A $\frac{1}{(2 \cdot 3 \cdot 3 \cdot 7)^{(\frac{1}{2})}}$	B $\frac{1}{(2 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$
C $\frac{1}{(2 \cdot 3 \cdot 3 \cdot 11)^{(\frac{1}{2})}}$	D $\frac{1}{(2 \cdot 3 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$
E $\frac{1}{(2 \cdot 3 \cdot 3 \cdot 13)^{(\frac{1}{2})}}$	F $\frac{1}{(2 \cdot 3 \cdot 3 \cdot 5)^{(\frac{1}{2})}}$

8 Factor the base number and simplify to make it easier to solve

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

A $\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 13)^{(\frac{1}{2})}}$	B $\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 3)^{(\frac{1}{2})}}$
C $\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2)^{(\frac{1}{2})}}$	D $\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 2)^{(\frac{1}{2})}}$
E $\frac{1}{(2 \cdot 4 \cdot 2)^{(\frac{1}{2})}}$	F $\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 7)^{(\frac{1}{2})}}$