



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

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

A	$\frac{1}{(2 \cdot 2 \cdot 5 \cdot 5)^{(\frac{1}{2})}}$	B	$\frac{1}{(2 \cdot 2 \cdot 25)^{(\frac{1}{2})}}$
C	$\frac{1}{(2 \cdot 2 \cdot 5 \cdot 5 \cdot 11)^{(\frac{1}{2})}}$	D	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 5 \cdot 5)^{(\frac{1}{2})}}$
E	$\frac{1}{(2 \cdot 10 \cdot 5)^{(\frac{1}{2})}}$	F	$\frac{1}{(2 \cdot 2 \cdot 5)^{(\frac{1}{2})}}$

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

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

A	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 5)^{(\frac{1}{2})}}$	B	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 5 \cdot 13)^{(\frac{1}{2})}}$
C	$\frac{1}{(2 \cdot 2 \cdot 4 \cdot 5)^{(\frac{1}{2})}}$	D	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 5)^{(\frac{1}{2})}}$
E	$\frac{1}{(2 \cdot 4 \cdot 2 \cdot 5)^{(\frac{1}{2})}}$	F	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 5)^{(\frac{1}{2})}}$

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

$96^{(-\frac{1}{2})}$

A	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3)^{(\frac{1}{2})}}$	B	$\frac{1}{(2 \cdot 4 \cdot 2 \cdot 2 \cdot 3)^{(\frac{1}{2})}}$
C	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3)^{(\frac{1}{2})}}$	D	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 13)^{(\frac{1}{2})}}$
E	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5)^{(\frac{1}{2})}}$	F	$\frac{1}{(2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3)^{(\frac{1}{2})}}$

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

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

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

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

$12^{(-\frac{1}{2})}$

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

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

$20^{(-\frac{1}{2})}$

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

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

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

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

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

$45^{(-\frac{1}{2})}$

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