



## Exponents - Negative Fractional Exponents with Non-Square Integer Base

### - Exponent to Factored Radical

<p><b>1</b> Factor this exponent's base number and express it as a radical</p> <p><math>80^{\left(\frac{-1}{2}\right)}</math></p>	<p>A <math>\frac{1}{\sqrt{2 \cdot 4 \cdot 2 \cdot 5}}</math></p> <p>B <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 2 \cdot 5}}</math></p> <p>C <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 2 \cdot 5}}</math></p> <p>D <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 10}}</math></p> <p>E <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 2}}</math></p> <p>F <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 5}}</math></p>	<p><b>2</b> Factor this exponent's base number and express it as a radical</p> <p><math>150^{\left(\frac{-1}{2}\right)}</math></p>	<p>A <math>\frac{1}{\sqrt{2 \cdot 3 \cdot 5 \cdot 5}}</math></p> <p>B <math>\frac{1}{\sqrt{2 \cdot 3 \cdot 5 \cdot 5 \cdot 7}}</math></p> <p>C <math>\frac{1}{\sqrt{2 \cdot 15 \cdot 5}}</math></p> <p>D <math>\frac{1}{\sqrt{3 \cdot 5 \cdot 5}}</math></p> <p>E <math>\frac{1}{\sqrt{2 \cdot 3 \cdot 25}}</math></p> <p>F <math>\frac{1}{\sqrt{2 \cdot 5 \cdot 5}}</math></p>
<p><b>3</b> Factor this exponent's base number and express it as a radical</p> <p><math>18^{\left(\frac{-1}{2}\right)}</math></p>	<p>A <math>\frac{1}{\sqrt{2 \cdot 3 \cdot 3 \cdot 3}}</math></p> <p>B <math>\frac{1}{\sqrt{2 \cdot 3 \cdot 3 \cdot 7}}</math></p> <p>C <math>\frac{1}{\sqrt{2 \cdot 3 \cdot 3 \cdot 5}}</math></p> <p>D <math>\frac{1}{\sqrt{2 \cdot 3 \cdot 3 \cdot 13}}</math></p> <p>E <math>\frac{1}{\sqrt{2 \cdot 3 \cdot 3}}</math></p> <p>F <math>\frac{1}{\sqrt{2 \cdot 3 \cdot 3 \cdot 11}}</math></p>	<p><b>4</b> Factor this exponent's base number and express it as a radical</p> <p><math>48^{\left(\frac{-1}{2}\right)}</math></p>	<p>A <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 2}}</math></p> <p>B <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5}}</math></p> <p>C <math>\frac{1}{\sqrt{2 \cdot 4 \cdot 2 \cdot 3}}</math></p> <p>D <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3}}</math></p> <p>E <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 2 \cdot 2 \cdot 3}}</math></p> <p>F <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 13}}</math></p>
<p><b>5</b> Factor this exponent's base number and express it as a radical</p> <p><math>40^{\left(\frac{-1}{3}\right)}</math></p>	<p>A <math>\frac{1}{\sqrt[3]{2 \cdot 2 \cdot 2 \cdot 3 \cdot 5}}</math></p> <p>B <math>\frac{1}{\sqrt[3]{2 \cdot 4 \cdot 5}}</math></p> <p>C <math>\frac{1}{\sqrt[3]{2 \cdot 2 \cdot 5}}</math></p> <p>D <math>\frac{1}{\sqrt[3]{2 \cdot 2 \cdot 10}}</math></p> <p>E <math>\frac{1}{\sqrt[3]{2 \cdot 2 \cdot 2 \cdot 2 \cdot 5}}</math></p> <p>F <math>\frac{1}{\sqrt[3]{2 \cdot 2 \cdot 2 \cdot 5}}</math></p>	<p><b>6</b> Factor this exponent's base number and express it as a radical</p> <p><math>50^{\left(\frac{-1}{2}\right)}</math></p>	<p>A <math>\frac{1}{\sqrt{2 \cdot 5 \cdot 5 \cdot 13}}</math></p> <p>B <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 5 \cdot 5}}</math></p> <p>C <math>\frac{1}{\sqrt{2 \cdot 5 \cdot 5 \cdot 5}}</math></p> <p>D <math>\frac{1}{\sqrt{2 \cdot 5 \cdot 5}}</math></p> <p>E <math>\frac{1}{\sqrt{2 \cdot 5 \cdot 5 \cdot 7}}</math></p> <p>F <math>\frac{1}{\sqrt{2 \cdot 5 \cdot 5 \cdot 11}}</math></p>
<p><b>7</b> Factor this exponent's base number and express it as a radical</p> <p><math>48^{\left(\frac{-1}{4}\right)}</math></p>	<p>A <math>\frac{1}{\sqrt[4]{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3}}</math></p> <p>B <math>\frac{1}{\sqrt[4]{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 7}}</math></p> <p>C <math>\frac{1}{\sqrt[4]{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3}}</math></p> <p>D <math>\frac{1}{\sqrt[4]{2 \cdot 2 \cdot 2 \cdot 3}}</math></p> <p>E <math>\frac{1}{\sqrt[4]{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 11}}</math></p> <p>F <math>\frac{1}{\sqrt[4]{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3 \cdot 3}}</math></p>	<p><b>8</b> Factor this exponent's base number and express it as a radical</p> <p><math>24^{\left(\frac{-1}{2}\right)}</math></p>	<p>A <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 3}}</math></p> <p>B <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 3 \cdot 13}}</math></p> <p>C <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 6}}</math></p> <p>D <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 3}}</math></p> <p>E <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 3 \cdot 7}}</math></p> <p>F <math>\frac{1}{\sqrt{2 \cdot 2 \cdot 2 \cdot 2 \cdot 3}}</math></p>