



## Basic Derivatives - Negative Fractional Power as Radical (with Rule) to Rewrite

<p>1 Rewrite the function as a single power of x.</p> $\sqrt[n]{x^m} = x^{\frac{m}{n}}$ $f(x) = \frac{1}{\sqrt[3]{x^4}}$	<p>A</p> $x^{-\frac{3}{4}}$	<p>B</p> $x^{-3}$	<p>C</p> $x^{-\frac{4}{3}}$	<p>2 Rewrite the function as a single power of x.</p> $\sqrt[n]{x^m} = x^{\frac{m}{n}}$ $f(x) = \frac{1}{\sqrt[3]{x}}$	<p>A</p> $x^{-\frac{1}{3}}$	<p>B</p> $x^{\frac{1}{3}}$	<p>C</p> $x^{-3}$
<p>3 Rewrite the function as a single power of x.</p> $\sqrt[n]{x^m} = x^{\frac{m}{n}}$ $f(x) = \frac{1}{\sqrt[3]{x^2}}$	<p>A</p> $x^{-\frac{3}{2}}$	<p>B</p> $x^{-3}$	<p>C</p> $x^{\frac{2}{3}}$	<p>4 Rewrite the function as a single power of x.</p> $\sqrt[n]{x^m} = x^{\frac{m}{n}}$ $f(x) = \frac{1}{\sqrt{x^3}}$	<p>A</p> $x^{-\frac{2}{3}}$	<p>B</p> $x^{-\frac{3}{2}}$	<p>C</p> $x^{-2}$
<p>5 Rewrite the function as a single power of x.</p> $\sqrt[n]{x^m} = x^{\frac{m}{n}}$ $f(x) = \frac{1}{\sqrt{x}}$	<p>A</p> $x^{-2}$	<p>B</p> $x^{-\frac{1}{2}}$	<p>C</p> $x^{\frac{1}{2}}$	<p>6 Rewrite the function as a single power of x.</p> $\sqrt[n]{x^m} = x^{\frac{m}{n}}$ $f(x) = \frac{1}{\sqrt{x^5}}$	<p>A</p> $x^{-\frac{5}{2}}$	<p>B</p> $x^{\frac{5}{2}}$	<p>C</p> $x^{-2}$
<p>7 Rewrite the function as a single power of x.</p> $\sqrt[n]{x^m} = x^{\frac{m}{n}}$ $f(x) = \frac{1}{\sqrt[3]{x^5}}$	<p>A</p> $x^{-3}$	<p>B</p> $x^{\frac{5}{3}}$	<p>C</p> $x^{-\frac{5}{3}}$				
		<p>D</p> $x^{-\frac{3}{5}}$					