



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

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