



Basic Derivatives - Negative Fractional Power as Radical to Derivative

<p>1 Find the derivative $f'(x)$ using the power rule.</p> $f(x) = \frac{1}{\sqrt[3]{x^4}}$	<p>A $f'(x) = -\frac{4}{3}x^{-\frac{7}{3}}$</p>	<p>B $f'(x) = -\frac{4}{3}x^{-\frac{1}{3}}$</p>	<p>2 Find the derivative $f'(x)$ using the power rule.</p> $f(x) = \frac{1}{\sqrt{x}}$	<p>A $f'(x) = x^{-\frac{3}{2}}$</p>	<p>B $f'(x) = -\frac{1}{2}x^{-\frac{1}{2}}$</p>
	<p>C $f'(x) = -\frac{4}{3}x^{-\frac{4}{3}}$</p>	<p>D $f'(x) = x^{-\frac{7}{3}}$</p>		<p>C $f'(x) = -\frac{1}{2}x^{-\frac{3}{2}}$</p>	<p>D $f'(x) = -\frac{1}{2}x^{\frac{1}{2}}$</p>
<p>3 Find the derivative $f'(x)$ using the power rule.</p> $f(x) = \frac{1}{\sqrt{x^5}}$	<p>A $f'(x) = -\frac{5}{2}x^{-\frac{5}{2}}$</p>	<p>B $f'(x) = x^{-\frac{7}{2}}$</p>	<p>4 Find the derivative $f'(x)$ using the power rule.</p> $f(x) = \frac{1}{\sqrt[3]{x}}$	<p>A $f'(x) = -\frac{1}{3}x^{\frac{2}{3}}$</p>	<p>B $f'(x) = -\frac{1}{3}x^{-\frac{4}{3}}$</p>
	<p>C $f'(x) = -\frac{5}{2}x^{-\frac{7}{2}}$</p>	<p>D $f'(x) = -\frac{5}{2}x^{-\frac{3}{2}}$</p>		<p>C $f'(x) = x^{-\frac{4}{3}}$</p>	<p>D $f'(x) = -\frac{1}{3}x^{-\frac{1}{3}}$</p>
<p>5 Find the derivative $f'(x)$ using the power rule.</p> $f(x) = \frac{1}{\sqrt{x^3}}$	<p>A $f'(x) = x^{-\frac{5}{2}}$</p>	<p>B $f'(x) = -\frac{3}{2}x^{-\frac{5}{2}}$</p>	<p>6 Find the derivative $f'(x)$ using the power rule.</p> $f(x) = \frac{1}{\sqrt[3]{x^5}}$	<p>A $f'(x) = -\frac{5}{3}x^{-\frac{5}{3}}$</p>	<p>B $f'(x) = -\frac{5}{3}x^{-\frac{2}{3}}$</p>
	<p>C $f'(x) = -\frac{3}{2}x^{-\frac{3}{2}}$</p>	<p>D $f'(x) = -\frac{3}{2}x^{-\frac{1}{2}}$</p>		<p>C $f'(x) = -\frac{5}{3}x^{-\frac{8}{3}}$</p>	<p>D $f'(x) = x^{-\frac{8}{3}}$</p>
<p>7 Find the derivative $f'(x)$ using the power rule.</p> $f(x) = \frac{1}{\sqrt[3]{x^2}}$	<p>A $f'(x) = x^{-\frac{5}{3}}$</p>	<p>B $f'(x) = -\frac{2}{3}x^{-\frac{2}{3}}$</p>			
	<p>C $f'(x) = -\frac{2}{3}x^{-\frac{5}{3}}$</p>	<p>D $f'(x) = -\frac{2}{3}x^{\frac{1}{3}}$</p>			