



Derivative Rules - Sum Rule Negative Fractional Powers as Radical to Derivative

<p>1</p> <p>Find the derivative $f'(x)$ using the sum rule. $f(x) = -\frac{5}{\sqrt{x^3}} + 5x^2 + 2$</p>	<p>2</p> <p>Find the derivative $f'(x)$ using the sum rule. $f(x) = -\frac{4}{\sqrt{x^3}} + 3x^2$</p>		
<p>A $f'(x) = \frac{15}{2}x^{-\frac{3}{2}} + 10x^2$</p>	<p>B $f'(x) = \frac{15}{2}x^{-\frac{5}{2}} + 10x$</p>	<p>A $f'(x) = 6x^{-\frac{5}{2}} + 6x$</p>	<p>B $f'(x) = -4x^{-\frac{5}{2}} + 3x$</p>
<p>C $f'(x) = \frac{15}{2}x^{-\frac{5}{2}} + 10x + 2$</p>	<p>D $f'(x) = -5x^{-\frac{5}{2}} + 5x$</p>	<p>C $f'(x) = 6x^{-\frac{3}{2}} + 6x^2$</p>	
		<p>3</p> <p>Find the derivative $f'(x)$ using the sum rule. $f(x) = -\frac{4}{\sqrt[3]{x}} + 3x^3 - 3x^2$</p>	<p>4</p> <p>Find the derivative $f'(x)$ using the sum rule.</p> $f(x) = \frac{2}{\sqrt[3]{x^4}} + 5 - 4x$
<p>A $f'(x) = \frac{4}{3}x^{-\frac{1}{3}} + 9x^3 - 6x^2$</p>	<p>B $f'(x) = -4x^{-\frac{4}{3}} + 3x^2 - 3x$</p>	<p>A $f'(x) = -\frac{8}{3}x^{-\frac{7}{3}} - 4 + 5$</p>	<p>B $f'(x) = 2x^{-\frac{7}{3}} - 4$</p>
<p>C $f'(x) = \frac{4}{3}x^{-\frac{4}{3}} + 9x^2 - 6x$</p>		<p>C $f'(x) = -\frac{8}{3}x^{-\frac{4}{3}} - 4x$</p>	<p>D $f'(x) = -\frac{8}{3}x^{-\frac{7}{3}} - 4$</p>
		<p>5</p> <p>Find the derivative $f'(x)$ using the sum rule.</p> $f(x) = -\frac{3}{\sqrt[3]{x^4}} - 4x$	<p>6</p> <p>Find the derivative $f'(x)$ using the sum rule.</p> $f(x) = \frac{5}{\sqrt{x}} - 2$
<p>A $f'(x) = 4x^{-\frac{7}{3}} - 4$</p>	<p>B $f'(x) = -3x^{-\frac{7}{3}} - 4$</p>	<p>A $f'(x) = -\frac{5}{2}x^{-\frac{3}{2}} - 2$</p>	<p>B $f'(x) = 5x^{-\frac{3}{2}}$</p>
<p>C $f'(x) = 4x^{-\frac{4}{3}} - 4x$</p>		<p>C $f'(x) = -\frac{5}{2}x^{-\frac{3}{2}}$</p>	<p>D $f'(x) = -\frac{5}{2}x^{-\frac{1}{2}}$</p>
<p>7</p> <p>Find the derivative $f'(x)$ using the sum rule. $f(x) = \frac{3}{\sqrt{x^3}} + 5x^3 - 5x$</p>	<p>8</p> <p>Find the derivative $f'(x)$ using the sum rule. $f(x) = \frac{4}{\sqrt{x}} - 2x - 5x^2$</p>		
<p>A $f'(x) = -\frac{9}{2}x^{-\frac{5}{2}} + 15x^2 - 5$</p>	<p>B $f'(x) = 3x^{-\frac{5}{2}} + 5x^2 - 5$</p>	<p>A $f'(x) = -2x^{-\frac{1}{2}} - 2x - 10x^2$</p>	<p>B $f'(x) = 4x^{-\frac{3}{2}} - 2 - 5x$</p>
<p>C $f'(x) = -\frac{9}{2}x^{-\frac{3}{2}} + 15x^3 - 5x$</p>		<p>C $f'(x) = -2x^{-\frac{3}{2}} - 2 - 10x$</p>	