



Basic Derivatives - Negative Fractional Power with Coefficient as Radical to

Rewrite

1 Rewrite the function as a single power of x.

$f(x) = \frac{4}{\sqrt[3]{x^4}}$

A	B	C
$4x^{-\frac{4}{3}}$	$4x^{-\frac{3}{4}}$	$4x^{\frac{4}{3}}$
D		
$4x^{-3}$		

2 Rewrite the function as a single power of x.

$f(x) = -\frac{8}{\sqrt{x^3}}$

A	B	C	D
$-8x^{-2}$	$-8x^{-\frac{3}{2}}$	$-8x^{-\frac{2}{3}}$	$-8x^{\frac{3}{2}}$

3 Rewrite the function as a single power of x.

$f(x) = \frac{7}{\sqrt{x^3}}$

A	B	C
$7x^{-\frac{2}{3}}$	$7x^{-\frac{3}{2}}$	$7x^{\frac{3}{2}}$
D		
$7x^{-2}$		

4 Rewrite the function as a single power of x.

$f(x) = -\frac{5}{\sqrt[3]{x^4}}$

A	B	C	D
$-5x^{-\frac{3}{4}}$	$-5x^{\frac{4}{3}}$	$-5x^{-\frac{4}{3}}$	$-5x^{-3}$

5 Rewrite the function as a single power of x.

$f(x) = \frac{7}{\sqrt[3]{x^4}}$

A	B	C
$7x^{\frac{4}{3}}$	$7x^{-\frac{3}{4}}$	$7x^{-\frac{4}{3}}$
D		
$7x^{-3}$		

6 Rewrite the function as a single power of x.

$f(x) = -\frac{7}{\sqrt{x}}$

A	B	C
$-7x^{-\frac{1}{2}}$	$-7x^{\frac{1}{2}}$	$-7x^{-2}$

7 Rewrite the function as a single power of x.

$f(x) = -\frac{9}{\sqrt{x}}$

A	B	C
$-9x^{-\frac{1}{2}}$	$-9x^{-2}$	$-9x^{\frac{1}{2}}$

8 Rewrite the function as a single power of x.

$f(x) = -\frac{2}{\sqrt[3]{x^2}}$

A	B	C	D
$-2x^{-\frac{2}{3}}$	$-2x^{\frac{2}{3}}$	$-2x^{-3}$	$-2x^{-\frac{3}{2}}$