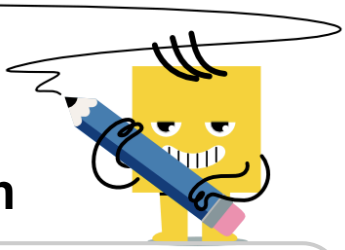
Name



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

1

Rewrite the function as a single power of x.

$$\sqrt[n]{x^m} = x^{\frac{m}{n}}$$

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

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

2

Rewrite the function as a single power of x.

$$\sqrt[n]{x^m} = x^{\frac{m}{n}}$$

$$f(x) = -2\sqrt[3]{x^4}$$

A	B	C	D
$-2x^{\frac{3}{4}}$	$-2x^{\frac{4}{3}}$	$-2x^{-\frac{4}{3}}$	$-2x^{3}$

3

Rewrite the function as a single power of x.

$$\sqrt[n]{x^m} = x^{\frac{m}{n}}$$

$$f(x) = -8\sqrt[3]{x^2}$$

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

4

Rewrite the function as a single power of x.

$$\sqrt[n]{x^m} = x^{\frac{m}{n}}$$

$$f(x) = 2\sqrt{x^5}$$

A	B	C	D
$2x^{-\frac{5}{2}}$	$2x^{2}$	$2x^{\frac{2}{5}}$	$2x^{\frac{5}{2}}$

5

Rewrite the function as a single power of x.

$$\sqrt[n]{x^m} = x^{\frac{m}{n}}$$

$$f(x) = 9\sqrt[3]{x^4}$$

A	B	C	D
$9x^{3}$	$9x^{\frac{3}{4}}$	$9x^{\frac{4}{3}}$	$9x^{-\frac{4}{3}}$

6

Rewrite the function as a single power of x.

$$\sqrt[n]{x^m} = x^{\frac{m}{n}}$$

$$f(x) = 9\sqrt{x^5}$$

A	B	C	D
$9x^{\frac{5}{2}}$	$9x^{2}$	$9x^{-\frac{5}{2}}$	$9x^{\frac{2}{5}}$

7

Rewrite the function as a single power of x.

$$\sqrt[n]{x^m} = x^{\frac{m}{n}}$$

$$f(x) = 5\sqrt{x^3}$$

A	B	C	D
$5x^{-\frac{3}{2}}$	$5x^{\frac{3}{2}}$	$5x^{\frac{2}{3}}$	$5x^{2}$

8

Rewrite the function as a single power of x.

$$\sqrt[n]{x^m} = x^{\frac{m}{n}}$$

$$f(x) = -9\sqrt[3]{x^2}$$

A	B	C	D
$-9x^{-\frac{2}{3}}$	$-9x^{3}$	$-9x^{\frac{3}{2}}$	$-9x^{\frac{2}{3}}$