



Basic Derivatives - Positive Fractional Power as Radical to Rewrite

1 Rewrite the function as a single power of x.

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

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

2 Rewrite the function as a single power of x.

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

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

3 Rewrite the function as a single power of x.

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

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

4 Rewrite the function as a single power of x.

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

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

5 Rewrite the function as a single power of x.

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

- A $x^{-\frac{1}{3}}$ B $x^{\frac{1}{3}}$ C x^3

6 Rewrite the function as a single power of x.

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

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

7 Rewrite the function as a single power of x.

$$f(x) = \sqrt{x}$$

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