



Basic Derivatives - Positive Fractional Power with Coefficient as Radical to

Rewrite

1 Rewrite the function as a single power of x.

$$f(x) = 8\sqrt{x}$$

A $8x^2$

B $8x^{\frac{1}{2}}$

C $8x^{-\frac{1}{2}}$

2 Rewrite the function as a single power of x.

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

A $-5x^{-\frac{1}{2}}$

B $-5x^2$

C $-5x^{\frac{1}{2}}$

3 Rewrite the function as a single power of x.

$$f(x) = -6\sqrt{x}$$

A $-6x^{-\frac{1}{2}}$

B $-6x^2$

C $-6x^{\frac{1}{2}}$

4 Rewrite the function as a single power of x.

$$f(x) = -2\sqrt{x}$$

A $-2x^2$

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

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

5 Rewrite the function as a single power of x.

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

A $-3x^{-\frac{5}{3}}$

B $-3x^{\frac{3}{5}}$

C $-3x^{\frac{5}{3}}$

D $-3x^3$

6 Rewrite the function as a single power of x.

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

A $-4x^{-\frac{4}{3}}$

B $-4x^3$

C $-4x^{\frac{4}{3}}$

D $-4x^{\frac{3}{4}}$

7 Rewrite the function as a single power of x.

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

A $7x^2$

B $7x^{\frac{3}{2}}$

C $7x^{\frac{2}{3}}$

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

8 Rewrite the function as a single power of x.

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

A $4x^{\frac{5}{3}}$

B $4x^{\frac{3}{5}}$

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

D $4x^3$