

$$\int \sqrt[3]{x^1} dx = \int x^{\frac{1}{3}} dx = \frac{1}{1 + \frac{1}{3}} x^{(1 + \frac{1}{3})} + C$$

$$\sqrt[m]{x^n} = x^{\frac{n}{m}} = \frac{3}{4} x^{\frac{4}{3}} + C$$

$$1 + \frac{1}{3} = \frac{3}{3} + \frac{1}{3} = \frac{4}{3}$$

$$\frac{1}{1 + \frac{1}{3}} = \frac{1}{\frac{4}{3}} = \frac{3}{4}$$

$$\frac{1}{\sqrt{x}} = \frac{1}{x^{\frac{1}{2}}} = x^{-\frac{1}{2}}$$

$$\frac{1}{2^n} = 2^{-n}$$

$$\sqrt{x} = \sqrt[2]{x^1} = x^{\frac{1}{2}}$$

$$\int x^n dx = \frac{1}{n+1} \cdot x^{n+1} + C$$