

$$\int \frac{x + x\sqrt[3]{x} + 2}{\sqrt[3]{x}} dx = \int \frac{x}{\sqrt[3]{x}} dx + \int \frac{x\sqrt[3]{x}}{\sqrt[3]{x}} dx + \int \frac{2}{\sqrt[3]{x}} dx$$

$$= \int x^{\frac{2}{3}} dx + \int x dx + 2 \int \frac{1}{\sqrt[3]{x}} dx =$$

$$= \frac{x^{\frac{5}{3}}}{\frac{5}{3}} + \frac{x^2}{2} + 2 \cdot \frac{x^{\frac{2}{3}}}{\frac{2}{3}} + C =$$

$$= \frac{3}{5} \sqrt[3]{x^5} + \frac{x^2}{2} + \frac{3}{1} \sqrt[3]{x^2} + C$$