$$\sqrt[b]{x^a} = x^{a/b}$$

$$\int x^n dx = \frac{x^{n+1}}{n+1} + c \quad n \neq -1$$

- $\int 5\sqrt{x^3}\, dx$

$$\int 5 \cdot \sqrt{x^3}\, dx = 5 \cdot \int x^{3/2}\, dx = \not{5} \cdot \frac{x^{5/2}}{\not{5}/2} + c =$$

$$= 2 \cdot x^{5/2} + c$$