

$$13) \int \frac{2}{\sqrt[3]{x}} dx$$

$$\int \frac{2}{x^{1/3}} dx$$

$$\int 2x^{-1/3} dx$$

$$2 \int x^{-1/3} dx$$

$$2 \left(\frac{x^{-1/3+1}}{1/3+1} \right) + C$$

$$2 \left(\frac{x^{2/3}}{2/3} \right) + C$$

$$\frac{2x^{2/3}}{2/3} + C$$

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

$$3x^{2/3} + C //$$

$$14) \int \frac{3}{\sqrt{y}} dy$$

$$\int \frac{3}{y^{1/2}} dy$$

$$\int 3y^{-1/2} dy$$

$$3 \left(\frac{y^{-1/2+1}}{-1/2+1} \right) + C$$

$$\frac{3y^{1/2}}{1/2} + C$$

$$6y^{1/2} + C$$

$$6\sqrt{y} + C //$$

$$\bullet f(x) = 3x^{2/3} + C$$

$$= \frac{d}{dx} 3x^{2/3} + \frac{d}{dx} C$$

$$= \frac{6}{3} x^{-1/3} + 0$$

$$= 2x^{-1/3}$$

$$= \frac{2}{x^{1/3}}$$

$$= \frac{2}{\sqrt[3]{x}} //$$

$$\bullet f(x) = 6\sqrt{y} + C$$

$$= \frac{d}{dx} 6y^{1/2} + \frac{d}{dx} C$$

$$= \frac{3}{1} y^{-1/2} + 0$$

$$= 3y^{-1/2}$$

$$= \frac{3}{y^{1/2}}$$

$$= \frac{3}{\sqrt{y}} //$$