$$\int x^n dx = \frac{x^{n+1}}{n+1} + C \qquad n \neq -1$$

$$\int k x \, dx = k \int x \, dx$$

- $\int 2x \, dx$

$$\int 2x \, dx = \circledast$$

$$\circledast = 2 \int x \, dx = 2 \cdot \left[\frac{x^2}{2} + C \right] =$$

$$= \not{2} \frac{x^2}{\not{2}} + \underbrace{2 \cdot C}_{\widetilde{C}} = x^2 + \widetilde{C}$$

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