

$$\begin{array}{c} \tilde{\mathfrak{c}}\tilde{\mathfrak{o}} \\ \downarrow \\ \mathfrak{i} \\ \tilde{\mathfrak{e}} \\ \mathfrak{Q} \\ \mathfrak{e} \\ \cos(x)e^{\frac{1}{x}} \\ \tilde{\zeta}\tilde{\mathfrak{a}} \\ \downarrow \\ \mathfrak{i} \\ \tilde{\zeta}\tilde{\mathfrak{o}} \\ \tilde{\zeta}\tilde{\mathfrak{a}} \end{array}$$

$$\begin{array}{l} \frac{d}{dx}\cos(x)=-\sin(x) \\ \frac{d^2}{dx^2}\cos(x)=-\frac{d}{dx}\sin(x)=-\cos(x) \\ \frac{d^3}{dx^3}\cos(x)=-\frac{d^2}{dx^2}\sin(x)=-\frac{d}{dx}\cos(x)=\sin(x) \\ \frac{d^4}{dx^4}\cos(x)=-\frac{d^3}{dx^3}\sin(x)=-\frac{d^2}{dx^2}\cos(x)=\frac{d}{dx}\sin(x)=\cos(x) \end{array}$$

$$\begin{array}{c} \mathfrak{e} \\ \downarrow \\ \mathfrak{i} \\ \mathfrak{e} \end{array}$$

$$\frac{d^n\cos(x)}{dx^n}=\begin{cases} \cos(x), & x\equiv 0mod4 \\ -\sin(x), & x\equiv 1mod4 \\ -\cos(x), & x\equiv 2mod4 \\ \sin(x), & x\equiv 3mod4 \end{cases}$$