

$$\begin{cases} y = x^2 - 4 \\ y = 12 + 6x \end{cases}$$

$$\begin{cases} y = \sqrt{x} \\ y = x^{\mathfrak{s}} \end{cases} \text{ on } 0|\pi \Rightarrow \int_{dx}^{0|\pi} \sqrt{x} - x^{\mathfrak{s}} = \begin{cases} \frac{2}{3}x^{3/2} + x^{\mathfrak{c}} \\ 0|\pi \end{cases} = \frac{2}{3}\pi^{3/2} - 2$$

$$\begin{cases} y = \overline{x}^{1:3:-10} \\ y = \overline{x}^{-1:1:14} \end{cases} \Rightarrow \text{UHS} - \text{DHS} = \overline{x}^{1:3:-10} - \overline{x}^{-1:1:14} = 2 \overline{x}^{1:1:-12} = 2 \overline{x}^{1:4} \overline{x}^{1:-3} = 0$$

$$\int_{dx}^{-4|3} \text{UHS} - \text{DHS} = 2 \int_{dx}^{-4|3} \overline{x}^{1:1:-12} = \overline{x}^{-4|3} \overline{x}^{1/3:1/2:-12:0}$$