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$$\int_{10}^{12} \frac{1}{2} x^3 \cdot 5^4 Ax$$



$$\int_{10}^{12} \frac{1}{2} x^5 Ax$$

$$\int_{10}^{12} \frac{1}{2} x^5 Ax$$

$$2 \int_0^1 u^{4/3} Au \quad u = \frac{1}{2}x - 5, \quad Au = \frac{1}{2}Ax$$

$$2 \left[ \frac{3u^{7/3}}{7} \right]_0^1 \quad \boxed{\frac{6}{7}}$$











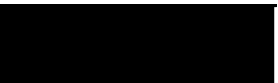














$$\int_0^1$$





$$\int_0^1 \sqrt{x} \quad 2 \quad 5x \quad 3 \quad Ax$$

$$\int_0^1 5x^{3/2} \quad 3x^{1/2} \quad 10x \quad 6 \quad Ax$$

$$\begin{matrix} h & & & i_1 \\ 2x^{5/2} & 2x^{3/2} & 5x^2 & 6x \end{matrix} \begin{matrix} \\ \\ \\ 0 \end{matrix}$$

15







$$\int_0^{\pi/2} \rho \frac{t \underline{T}_x \quad t \underline{T}_x^3 A x}{\quad}$$

$\gamma$

A

$^3 x A x$



$$\int_0^{\pi/2} p \frac{1}{t \underline{T}_x - t \underline{T}_x^3} Ax$$

$$\int_0^{\pi/2} q \frac{1}{t \underline{T}_x (1 - t \underline{T}_x^2)} Ax \quad \int_0^{\pi/2} \sqrt{t \underline{T}_x \cdot -ct^2} Ax$$

$$\int_0^{\pi/2} \sqrt{t \underline{T}_x \cdot -ct} Ax \quad \int_0^1 \sqrt{\quad}$$





$$\int_0^1 \frac{x^2 + 3x + 3}{x + 1} dx$$



$$\int_0^1 \frac{x^2 + 3x + 3}{x + 1} dx$$

$$\int_0^1 \left( x + 2 + \frac{1}{x+1} \right) dx$$

**z\_MAT, TE\_**

$$\frac{x^2}{2} + 2x + \ln|x+1| \Big|_0^1$$

$$\frac{5}{2} + \ln 2 - 2 \quad \text{cr} \quad 5 \quad 2 \ln 2$$









$$\int_0^\pi t \underline{T} x \cdot t \underline{T} \frac{x}{2} A x$$

$$\int_0^\pi 2 t \underline{T} \frac{x}{2} = c t \frac{x}{2} \cdot t \underline{T} \frac{x}{2} A x \quad t \underline{T} 2\theta \quad 2 t \underline{T} \theta = c t \theta$$

$$2 \int_0^\pi t \underline{T}^2 \frac{x}{2} = c t \frac{x}{2} A x \quad u \quad t \underline{T} \frac{x}{2}, \quad A u \quad \frac{1}{2} = c t \frac{x}{2} A x$$

$$4 \int_0^1 u^2 A u \quad 4 \frac{u^3}{3} \Big|_0^1 \quad \boxed{\frac{4}{3}}$$







$$\int_0^1 \chi^\pi \cdot \pi^D \cdot \chi^D \cdot D^\pi A \chi$$

53151501528870725465032312500000000361510801061035511251035

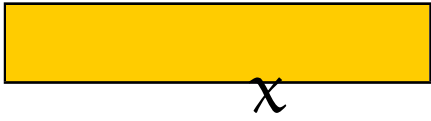
$$\int_0^1 x^\pi \cdot \pi^D \cdot x^D \cdot D^{\pi} A x \, D x$$

$$\pi^D \cdot D^{\pi} \int_0^1 x^{\pi \ D} A x$$

$$\pi^D \cdot D^{\pi} \frac{x^{\pi \ D \ 1} \ 1}{\pi \ D \ 1 \ 0}$$

3 1





$$\int_0^{\pi/3} (t \mathbf{T} x \quad \{ \cdot \_ x \} (=ct x \quad t \mathbf{D}^2 x \} \mathbf{A}x$$









$$\int_1^4 \frac{1}{2\sqrt{x}} dx$$



$$\int_1^4 \frac{1}{2\sqrt{x}} dx$$

$$\int_3^4 \frac{1}{\sqrt{u}} du \quad u = 2\sqrt{x}, \quad du = \frac{1}{\sqrt{x}} dx$$

$$\int_3^4 \frac{1}{2\sqrt{u}} du$$

$$\frac{1}{2} \ln 4 - \frac{1}{2} \ln 3$$





$$\int_0^{\pi/3} t D^4 x \{ \cdot \_ x Ax$$



$$\int_0^{\pi/3} \sin^4 x \cos x \, dx$$

$$\int_0^{\pi/3} \sin^3 x \cdot \sin x \cos x \, dx$$

$$\int_1^2 u^3 \, Au \quad u = \sin x, \quad Au = \cos x \, dx$$

$$\frac{u^4}{4} \Big|_1^2$$

$$\frac{15}{4}$$







$$\int_1^2 \frac{x D^3 x}{x} \underline{Z} x A x$$

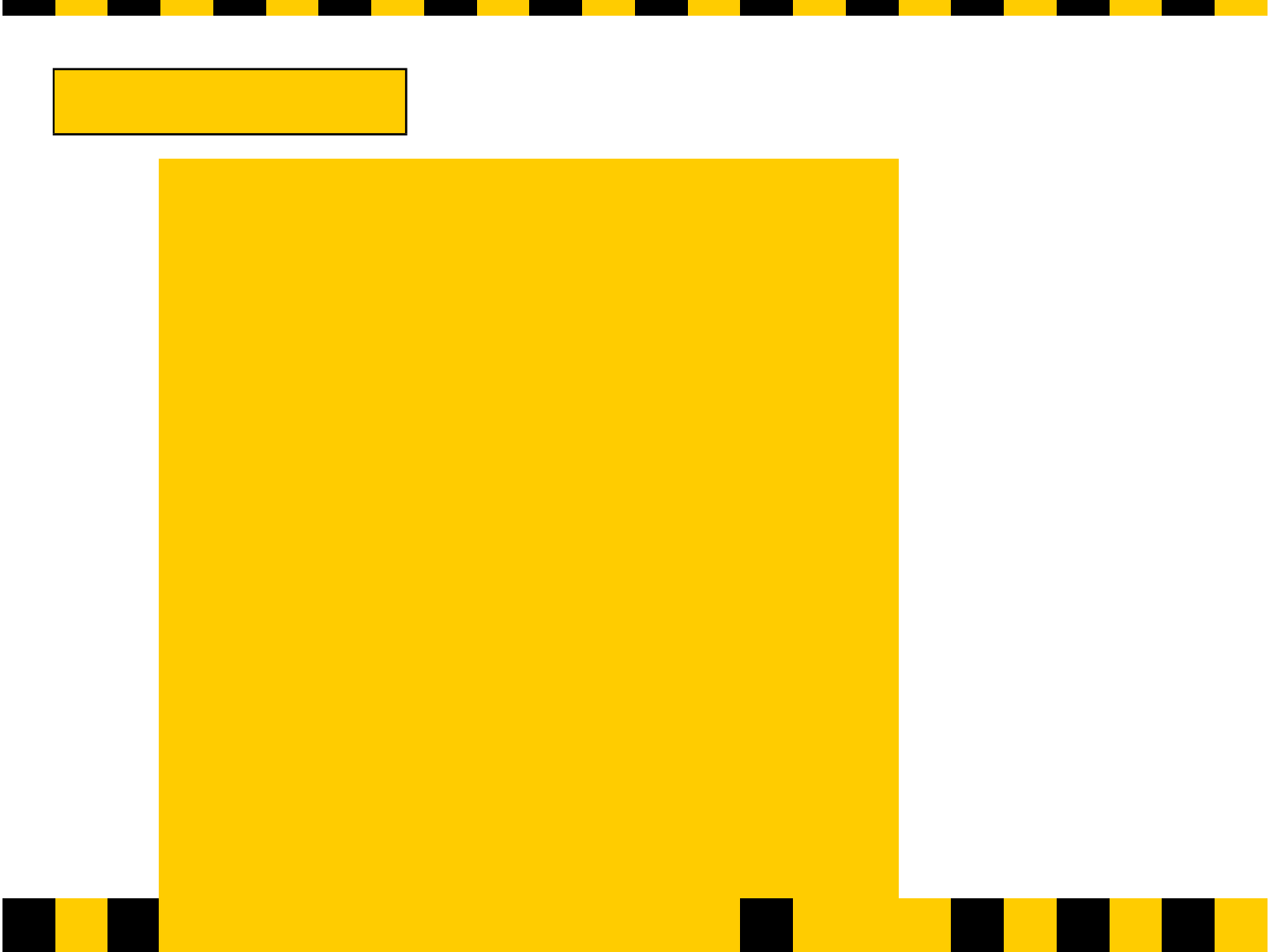
$$\int_1^2 \frac{x D^3 x}{x} \frac{\underline{Z} x}{x} A x$$

$$\int_1^2 D^3 x \frac{\underline{Z} x}{x} A x$$

$$\frac{D^3 x}{2} \frac{(\underline{Z} x)^2}{2} \Big|_1^2$$

$$\frac{D^4 \quad D^3 \quad (\underline{Z} 2)^2}{2}$$







$$\int_0^1 \cdot r \{ \cdot \_ \chi A$$









$$\int_1^7 \frac{2014}{\frac{20}{\frac{20}{x}} \frac{14}{\frac{14}{x}}} Ax$$



$$\int_1^7 \frac{2014}{\frac{20}{x} \frac{14}{x}} \frac{14}{\frac{20}{x} \frac{14}{x}} Ax$$

$$\int_1^7 \frac{2014}{x} Ax \quad sT \ f ZTŠG$$

$$2014 \ Z \ x \ i_7$$

$$2014 \ Z \ 7$$