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._t† D?Šc€† ZrD=D, Dc_Dr. ” D{EXD {c 5DD_ {DrDA Icr f rT€t {Q {
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$$\int_{10}^{12} \sqrt[3]{\left(\frac{1}{2}x \quad 5\right)^4} \mathbf{A}x$$



$$\int_{10}^{12} \sqrt[3]{\left(\frac{1}{2}x - 5\right)^4} Ax$$

$$\int_{10}^{12} \left(\frac{1}{2}x - 5\right)^{4/3} Ax$$

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

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







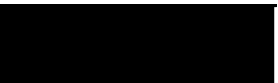














$$\int_0^1$$





$$\int_0^1 (\sqrt{x} - 2)(5x - 3) \, dx$$

$$\int_0^1 (5x^{3/2} - 3x^{1/2} - 10x + 6) \, dx$$

$$\left[2x^{5/2} - 2x^{3/2} - 5x^2 + 6x \right]_0^1$$

15





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

x

A

$^3 x A x$



$$\int_0^{\pi/2} \sqrt{t \underline{T} x - t \underline{T}^3 x} Ax$$

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

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





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

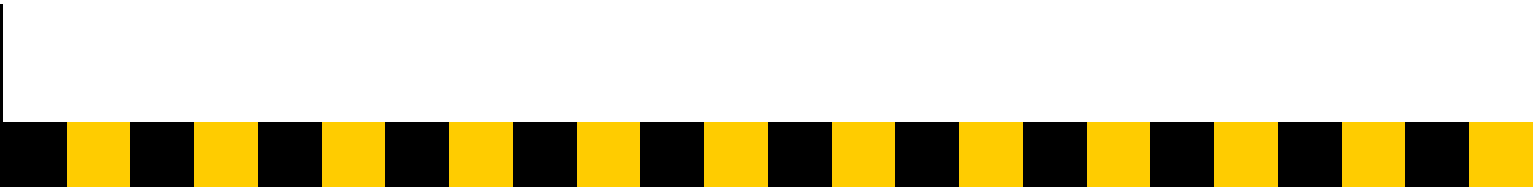


$$\int_0^1 \frac{x^2 + 3x + 3}{x + 1} dx$$

$$\int_0^1 \left(x + 2 + \frac{1}{x+1} \right) dx \quad \text{Z_MAT, TE_}$$

$$\left[\frac{x^2}{2} + 2x + \ln|x+1| \right]_0^1$$

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







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

$$\int_0^{\pi} \left(2 t \underline{T} \frac{x}{2} = ct \frac{x}{2} \right) \cdot t \underline{T} \frac{x}{2} Ax \quad t \underline{T} 2\theta \quad 2 t \underline{T} \theta = ct \theta$$

$$2 \int_0^{\pi} t \underline{T}^2 \frac{x}{2} = ct \frac{x}{2} Ax \quad \left[u \quad t \underline{T} \frac{x}{2}, \quad Au \quad \frac{1}{2} = ct \frac{x}{2} Ax \right]$$

$$4 \int_0^1 u^2 Au \quad 4 \left[\frac{u^3}{3} \right]_0^1 \quad \boxed{\frac{4}{3}}$$







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

53151501528870725465032312500000000361510801061035511251035

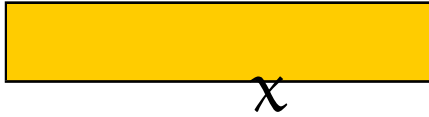
$$\int_0^1 x^\pi \cdot \pi^D \cdot x^D \cdot D^{\pi} A x \, D x$$

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

$$\pi^D \cdot D^{\pi} \left[\frac{x^{\pi \ D \ 1}}{\pi \ D \ 1} \right]_0^1$$

3 1





$$\int_0^{\pi/3} (t \mathbf{T} x \quad \{ \cdot _ x' (=ct x \quad t \mathbf{D}^2 x' \quad A x$$







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



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

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

$$\left[2\sqrt{u} \right]_3^4$$

$$4 - 2\sqrt{3}$$





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



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

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

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

$$\left[\frac{u^4}{4} \right]_1^2 = \frac{15}{4}$$





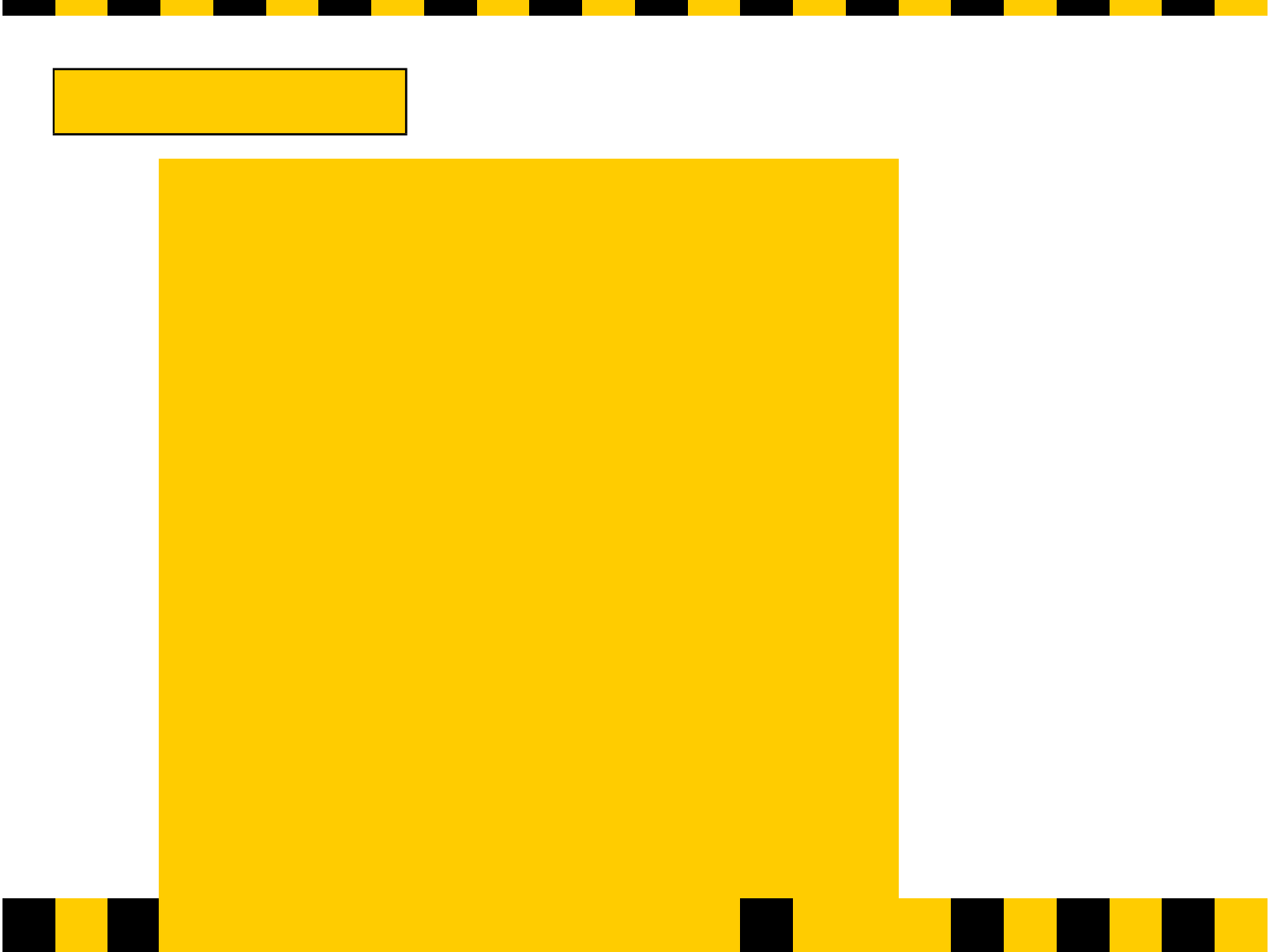
$$\int_1^2 \frac{x \mathbf{D}^3 x}{x} \underline{\mathbf{Z}} x \mathbf{A} x$$

$$\int_1^2 \left(\frac{x \mathbf{D}^3 x}{x} \quad \frac{\underline{\mathbf{Z}} x}{x} \right) \mathbf{A} x$$

$$\int_1^2 \left(\mathbf{D}^3 x \quad \frac{\underline{\mathbf{Z}} x}{x} \right) \mathbf{A} x$$

$$\left[\frac{\mathbf{D}^3 x}{2} \quad \frac{(\underline{\mathbf{Z}} x)^2}{2} \right]_1^2$$

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





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







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



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

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

$$2014 \left[\underline{Z} x \right]_1^7$$

$$2014 \underline{Z} 7$$