Fundamentos matemáticos para la Arquitectura

Curso 2020/2021 Práctica 14. Integrales

Grupo de laboratorio _____ **Nombre** _____

Traspasa los datos obtenidos con los archivos GeoGebra.

(A) $\int_{1-x^2}^{\sqrt{1-x^2}} 2y\mathrm{d}y =$ _____

$\int_0^1 \int_{1-x^2}^{\sqrt{1-x^2}} 2y\mathrm{d}y\mathrm{d}x =$ _____

(B) $\int_0^{1-x} (x+y)\mathrm{d}y =$ _____

$\int_0^1 \int_0^{1-x} (x+y)\mathrm{d}y\mathrm{d}x =$ _____

(C) $\int_{-\sqrt{1-x^2}}^{\sqrt{1-x^2}} 2(x^2y-2y+x)\mathrm{d}y =$ _____

$\int_0^1 \int_{-\sqrt{1-x^2}}^{\sqrt{1-x^2}} 2(x^2y-2y+x)\mathrm{d}y\mathrm{d}x =$ _____

(D) $\int_0^{3-4y^2} x^3y\mathrm{d}x =$ _____

$\int_{-\frac{\sqrt{3}}{2}}^{\frac{\sqrt{3}}{2}} \int_0^{3-4y^2} x^3y\mathrm{d}x\mathrm{d}y =$ _____

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sigue atrás →

(E) $\int_x^{3x} e^{x-y}\mathrm{d}y =$ $\square$

$\int_0^1 \int_x^{3x} e^{x-y}\mathrm{d}y\mathrm{d}x =$ $\square$

$\int_x^{4-x} e^{x-y}\mathrm{d}y =$ $\square$

$\int_1^2 \int_x^{4-x} e^{x-y}\mathrm{d}y\mathrm{d}x =$ $\square$

$\int\int_T e^{x-y}\mathrm{d}x\mathrm{d}y = \int_0^1 \int_x^{3x} e^{x-y}\mathrm{d}y\mathrm{d}x + \int_1^2 \int_x^{4-x} e^{x-y}\mathrm{d}y\mathrm{d}x =$ $\square$

(F) $\int_{3-x}^{2x} (x+y)\mathrm{d}y =$ $\square$

$\int_1^2 \int_{3-x}^{2x} (x+y)\mathrm{d}y\mathrm{d}x =$ $\square$

$\int_{\frac{x}{2}}^{6-x} (x+y)\mathrm{d}y =$ $\square$

$\int_2^4 \int_{\frac{x}{2}}^{6-x} (x+y)\mathrm{d}y\mathrm{d}x =$ $\square$

$\int\int_T (x+y)\mathrm{d}x\mathrm{d}y = \int_1^2 \int_{3-x}^{2x} (x+y)\mathrm{d}y\mathrm{d}x + \int_2^4 \int_{\frac{x}{2}}^{6-x} (x+y)\mathrm{d}y\mathrm{d}x =$ $\square$