DSTQQSSS

$$\int_{y=0}^{2} \frac{y}{y} dy = \frac{1}{2} = \frac{(x^{2})^{2} - o^{2}}{2}$$

$$= \frac{1}{2} \times \frac{x}{2} = \frac{1}{2} \times \frac{x}{2} =$$

$$=\frac{1}{2} \cdot \frac{32}{5} - \frac{32^{2}}{10^{2}} \cdot \frac{16}{5}$$

$$2\int_{0}^{1} x \, dx + u \int_{2}^{1} \frac{1}{2} \left[\frac{1}{2} + 4 \cdot x \right]_{0}^{1} = \frac{1}{2}$$

SAD DOMINGOS

$$\frac{1}{0} = 2\left(\frac{1}{2} - \frac{1}{2}\right) + 4\left(1 - 0\right) = 2.1 + 4$$

$$\sum_{2}^{3} yy^{2} dy = x \sum_{3}^{3} y^{2} dy = x y^{3} = x \left(\frac{3}{3} - \frac{2}{3}\right)$$

$$= x \left(2 - \frac{3}{3} - \frac{2}{3}\right)$$

$$\frac{2}{3} \frac{27 - 8}{3} = \frac{19}{3} \times \frac{1}{3}$$

$$\int_{0}^{19} \frac{19}{3} \times dx^{2} = \frac{19}{3} \int_{0}^{19} \times dx^{2} = \frac{19}{3} \cdot \frac{x^{2}}{2} \int_{0}^{19} \frac{19}{3} \times dx^{2} = \frac{19}{3} \cdot \frac{x^{2}}{2} = \frac{19}{3} = \frac{19}{3} = \frac{19}{$$

$$\frac{19}{3} \cdot \left(\frac{1}{2} - 0\right) - \frac{19}{3} \cdot \frac{1}{2} = \frac{19}{6}$$

DISTQQS, S.

4.)
$$\int_{1}^{2} \int_{1}^{2} xy \, dy \, dx$$

 $\int_{1}^{2} xy \, dy = 1 \int_{1}^{2} y \, dy = x \frac{y^{2}}{2} \Big|_{1}^{2}$
 $\int_{1}^{2} \left(\frac{2^{2}}{2} - \frac{1^{2}}{2} \right)^{2} \int_{1}^{2} \left(\frac{4}{2} - \frac{1}{2} \right)^{2}$

$$\lambda \left(\frac{2^2}{2} - \frac{1^2}{2}\right)^2 \lambda \left(\frac{9}{2} - \frac{1}{2}\right)$$

$$\int_{1}^{2} \frac{3 \cdot x}{2} = \frac{3}{2} \int_{1}^{2} x \, dx = \frac{3}{2} \cdot \frac{x^{2}}{2} \Big|_{1}^{2}$$

$$\frac{3}{2} \cdot \left(\frac{2^2}{2} - \frac{4^2}{2}\right) = \frac{3}{2} \cdot \frac{3}{2} - \frac{9}{4}$$

$$\int_{0}^{\sqrt{y}} (x+y) dy = \int_{0}^{\sqrt{y}} y dy = \int_{0}^{\sqrt{y}} + \frac{y^{2}}{2}$$

$$= \frac{y}{\sqrt{x}} + \frac{y}{\sqrt{x}} + \frac{y}{\sqrt{x}} + \frac{y}{\sqrt{x}}$$

$$= \frac{y}{\sqrt{x}} + \frac{y}{\sqrt{x}} + \frac{y}{\sqrt{x}} + \frac{y}{\sqrt{x}}$$

$$= \frac{y}{\sqrt{x}} + \frac{y}{\sqrt{x}} + \frac{y}{\sqrt{x}} + \frac{y}{\sqrt{x}}$$

$$\int_{0}^{4} \frac{(x^{\frac{3}{2}} + x)}{x^{2}} dx = \int_{0}^{4} \frac{3}{x^{2}} dx + \int_{0}^{4} x dx$$

$$\frac{2\sqrt{x^{4}}}{3} + \int_{0}^{4} \frac{1}{x^{2}} dx + \int_{0}^{4} \frac{3}{x^{2}} dx + \int_{0}^{4} \frac{3}{x^{2}}$$

$$+\frac{1}{2}\left(\frac{4^{2}}{2}-0\right)-2\sqrt{\log y}+\frac{16}{4}-64+4$$

$$=\frac{16}{8}$$

DSTQQSS

6-
$$\int_{0}^{2} \int_{0}^{x-2} (x + y - 1) dy dx$$

$$\int_{0}^{x} (x + y - 1) dy = (4y + 2)^{2} - y + 2^{2} = 1$$

$$x = (x - 2 - 0) + (x + 2)^{2} - y - (x - 2 - 0)$$

$$= x (x - 2) + (x^{2} - 4x + 1) - (x - 2) = x^{2} - 2x$$

$$+ (x^{2} - 4x + 4) - x + 2 = 1$$

$$= (x - 2)^{2} - (x - 2)(x - 2) = x^{2} - 2x + 2x$$

$$= (x - 2)^{2} = (x - 2)(x - 2) = x^{2} - 2x + 2x$$

$$(x - 2)^{2} = (x - 2)(x - 2) = x^{2} - 2x + 2x$$

$$\frac{1}{3} \left(\frac{8 \times 3}{3} - \frac{16 \times 2}{3} \right)^{2} = \frac{1}{2} \left(\frac{8^{3} - 5}{3} + \frac{2}{15} + \frac{2}{15} \right)^{2}$$

$$= \frac{1}{2} \left(\frac{3^{3} - 5}{3} - \frac{5}{15} + \frac{2}{15} + \frac{2}{15} + \frac{2}{15} + \frac{2}{15} \right)^{2}$$

$$= \frac{1}{2} \left(\frac{8 - 20 + 16}{15} \right) = \frac{1}{2} \cdot \frac{4 + \frac{1}{2} \cdot \frac{4}{15} \cdot \frac{2}{15}}{2}$$

As the root,

7)
$$\begin{cases} 3 & 5^{2} & (4-y^{2}) dy dx = \int_{0}^{3} \frac{16-18}{3} \\ \frac{16}{3} & \frac{1}{3} & \frac{1}$$

$$\frac{16}{3}$$
 $(3-0)$ $\frac{16}{3}$ $(3-0)$ $\frac{16}{3}$ $(3-16)$

$$\int_{6}^{2} (4-y^{2}) dy^{-3}y^{-3}f^{-4}x^{2} - \frac{3}{3}f^{-4}x^{2} - \frac{$$

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8-) $\int_{0}^{\pi} \int_{0}^{2} \times (\omega_{1}(x_{y})) dy dx = \int_{0}^{\pi} \int_{0}^{\pi} \int_{0}^{\pi} (2x) - (\omega_{1}(x)) dx = \int_{0}^{\pi} \int_$

 $= -\frac{(an (2x))^{7}}{2} + \frac{(an (2))^{7}}{2}$

- (-Cor (2.0)) + cor 11 - Cor 0

- Gar 27 + Goz 0 + Goz 17 - Goz 0

= - / / / -1) -1 = -2/1

Si x Cor (x y) dy; x si Cor (xy) dy = x. Sen (xy) 2 = Sen (2x) - Son (x).

SAO DOMINOS

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