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5) a)
$$\int_{K} T_{2} \cos x \, dx = \frac{1}{2}$$

$$F = \cos x \, dx$$

$$c - c = \frac{1}{2}$$

$$Sen(\pi) - F(k) = \frac{1}{2}$$

$$Sen(\pi) - Sen(k) = \frac{1}{2}$$

$$S = \frac{1}{2}$$

$$Sen(k) = \frac{1}{2}$$

$$Sen(k) = \frac{1}{2}$$

$$K = \frac{\pi}{6}$$

Rta: el valor k que comple es $k = \frac{\pi}{6}$

$$F(x) = x^{2}$$

$$g(x) = 2$$

$$= \int_{-1}^{2} 2 - |x| - \frac{1}{3}$$

$$g(x) = 2 - |x|$$

$$= \int_{-1}^{1} 2 - |x| - \int_{-1}^{1} x^{2}$$

$$= \frac{7}{3}$$

$$= \frac{7}{3}$$
Rta: El area encerrada es de 7/3

$$\int_{-1}^{1} x^{2} = F_{(1)} - F_{(-1)}$$

$$= \frac{1^{3}}{3} - \frac{1^{3}}{3} + \epsilon - \epsilon$$

$$= F(0) - F(-1) + F_{2}(1) - F_{2}(0)$$

$$= 2 \cdot 0 + \frac{5}{2}^{2} - \left[2(-1) + \frac{1}{2}\right] + 2 \cdot 1 - \frac{1}{2}^{2} - 0 + \frac{1}{2}$$

$$= + \frac{3}{2} + \frac{3}{2} = \frac{6}{2} = 3$$

F(x) = 2x + x2 + C F2(x) = 2x - x2 + C

$$\int_{0}^{\infty} F(x) = \frac{x^3}{3} + C$$

Molina Franco 44192153 x=1 Si So Fan. gandx = 5 Sa Fexi g'exi -4 Udv = UV - Svdu Fan-g'cx) = UV-SVOU F(1) - F(0) = fan. 905 Sgar. fan =[F(1) · 9(1) - 5] - [F(0) · 9(0) - 5]X = [4.(-3)-5]-[2.6-5] = [-12-5] - [12-5] dv = g'(x) = -17 - 7 V = 9(x) = -24 S' f(x) · g'x = -24

Índice de comentarios

2.1 No es así la regla de Barrow