11.39

lördag 7 januari 2023 01:22

$$f(x) = \int_0^x \frac{t}{\cos t}\, dt$$

$$f'(x) = \frac{x}{\cos x}$$

$$f''(x) = \frac{1}{\cos x}(1 + x \tan x)$$

$$P_2(x) = f(0) + f'(0)x + f''(0) \cdot \tfrac{1}{2}x^2 =$$

$$= 0 + 0 + \tfrac{1}{2}x^2 = \underline{\underline{\tfrac{1}{2}x^2}}$$