

5.4b Fundamental Theorem of Calculus

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$$\frac{d}{dx} \left(\int_{-\pi}^x \cos(t) dt \right) =$$

$$\frac{d}{dx} \left(\int_0^x \left(\frac{1}{1+t^2} \right) dt \right) =$$

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$$\frac{d}{dx} \left(\int_1^{x^2} \cos(t) dt \right) =$$

$$\frac{d}{dx} \left(\int_2^{x^2+1} \tan^{-1}(t) dt \right) =$$

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find $\frac{dy}{dx}$

$$y = \int_x^5 (3t \sin(t)) dt$$

$$y = \int_{2x}^{x^2} \left(\frac{1}{2 + e^t} \right) dt$$

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Find a function $y = f(x)$ with derivative $\frac{dy}{dx} = \tan x$
that satisfies the condition $f(3) = 5$

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