13.23

torsdag 22 december 2022

12:12

a)
$$\frac{1}{e^{x} - e^{-x}} dx = \begin{bmatrix} + z & x = |h| + \\ dx = \frac{1}{+} d + \end{bmatrix} = \int_{1}^{\infty} \frac{1}{+ - +^{-1}} dx + \int_{1}^{\infty} \frac{1}$$

$$A-B=1$$
 $-2B=1$ $B=-\frac{1}{2}$ $A=\frac{1}{2}$

$$\int_{0}^{\infty} \frac{\cos x}{3 + \sin x} dx = \begin{bmatrix} + = 8 \text{in } x + = \alpha \text{nsin } x \\ dt = \cos x dx \end{bmatrix} = \int_{0}^{\infty} \frac{1}{3 + t} dt = \begin{bmatrix} \ln|3 + t| \end{bmatrix}_{0}^{T} = \ln|3 + T| - \ln|3| = \ln|1 + \frac{T}{3}| = \frac{1}{3 + t} = \frac{1}{3 + t} dt$$

$$\int_{0}^{\infty} \frac{\cos x}{3 + \sin x} dx = \int_{0}^{\infty} \frac{1}{3 + t} dt = \left[\ln|3 + t| \right]_{0}^{T} = \ln|3 + T| - \ln|3| = \ln|1 + \frac{T}{3}| = \frac{1}{3 + t} dt$$

$$\int_{0}^{\infty} \frac{1}{3 + t} dt = \int_{0}^{\infty} \frac{1}{3 + t} dt = \left[\ln|3 + t| \right]_{0}^{T} = \ln|3 + T| - \ln|3| = \ln|1 + \frac{T}{3}| = \frac{1}{3 + t} dt$$

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