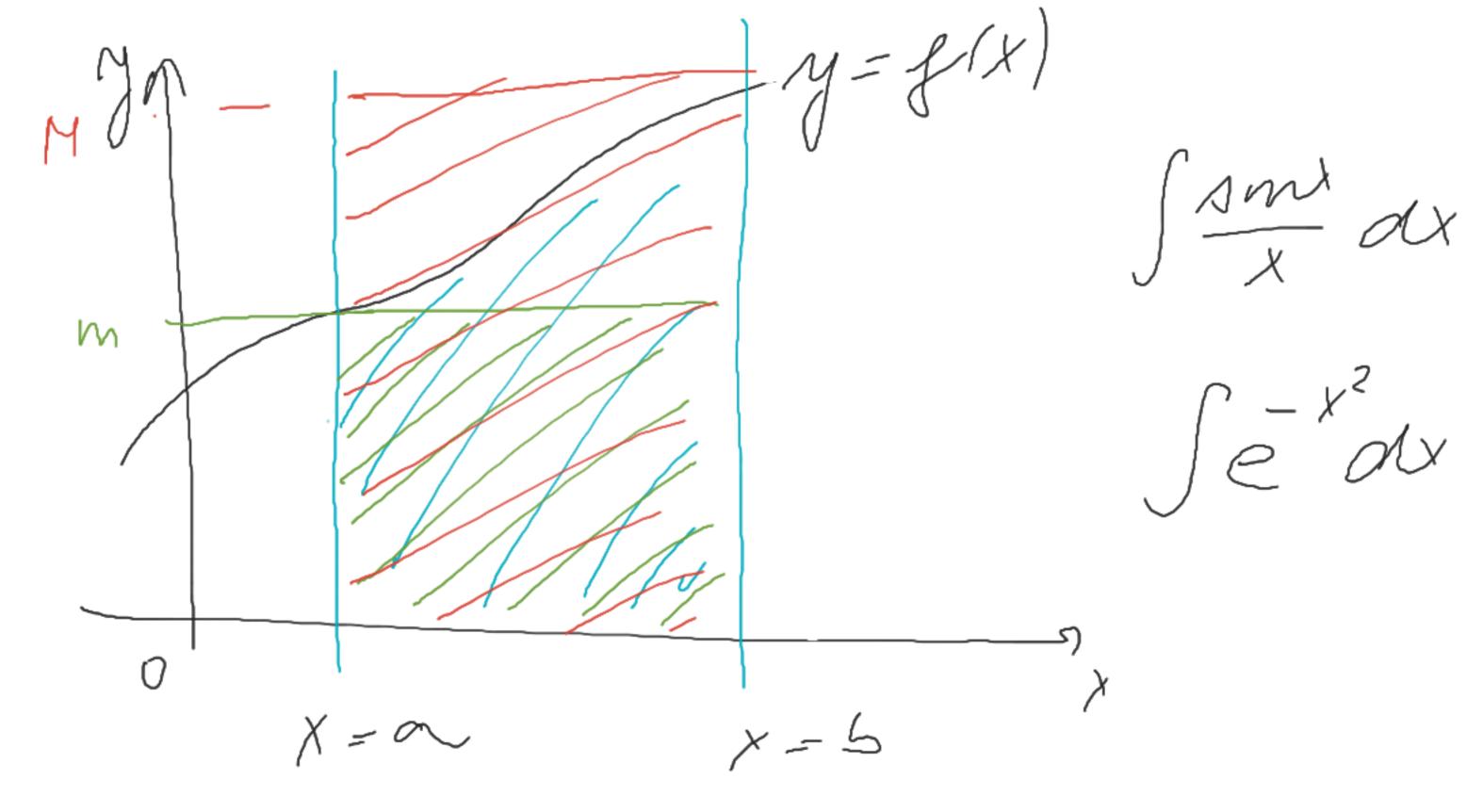
MTEGRAL 2 PARKEJ FUNKEIE

1 M= x3 MIEGRAL 2 NOPARNED FUNKCIE X = W X=-0

 $\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty$

PLOCHA MEDZI JX) ~ M= 0 NEBUDE NUCOVA DSTREDNES HODROTE PRE URCITY INTEGRAL M= 1/x) 1/x/dx=1/c/16a) PLOCATA OBDCZN164 X=C ×=6 X = a

DISHAD VRCITEHO WIEGRALV



1 x2 = I => t2=m I - 1 $\frac{dt}{t^2} = -\left[\frac{1}{t}\right]_{12}^1 = -\left(1 - \frac{2}{r_2}\right) =$ $=-1+\frac{2}{12}=\frac{2}{1+12}$

 $C) \int_{0}^{h2} xe^{+} dx = \left| \begin{array}{c} u = x & h' = 1 \\ r' - e^{+} & r = e^{+} \end{array} \right| =$ $= \left[xe^{+} \right]_{0}^{h2} - \int_{0}^{h2} e^{+} dx = \ln 2e^{-} - 0 -$ $-[e^{*}]_{0}^{\ln 2} = 2 \ln 2 - e^{\ln 2} = e^{\ln$

(a)
$$\int_{1}^{4} \frac{1-1x}{x} dx = \begin{cases} t = 1x \\ t^{2} = x \end{cases} \begin{cases} x_{1} = 9 \Rightarrow t_{1} = 3 \\ x_{2} = 4 \Rightarrow t_{2} = 2 \end{cases}$$

$$= \int_{2}^{4} \frac{1-t}{t} \cdot 2t dt = \left[2t-t^{2}\right]_{3}^{2} = 4-4-4$$

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$$= \int_{3}^{4} \frac{1-1x}{t} dx = \left[2t-t^{2}\right]_{3}^{2} = 4-4-4$$

3 => $y = 4x - x^2$ 4 x - x = 0 (4-x)=08x -> y = 0 $x_1 = 0$ $x_2 = 4$ P= 1 4x-x2-10 dV= x M=0

$$= \left[\frac{2Kx^2 - x^3}{2}\right]_0^4 = 2.16 - \frac{4.16}{3} = \frac{6.16 - 9.16}{3}$$

$$=\frac{2.16}{3}-\frac{32}{3}$$