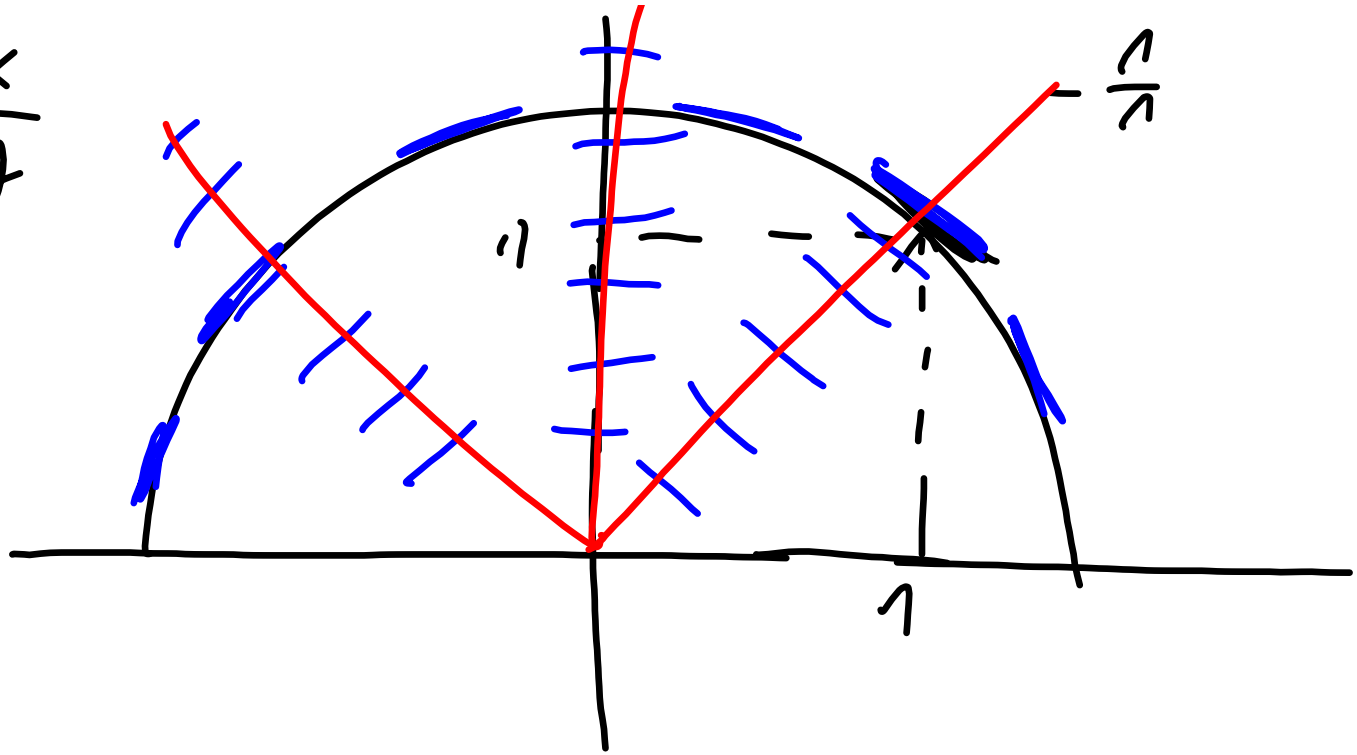
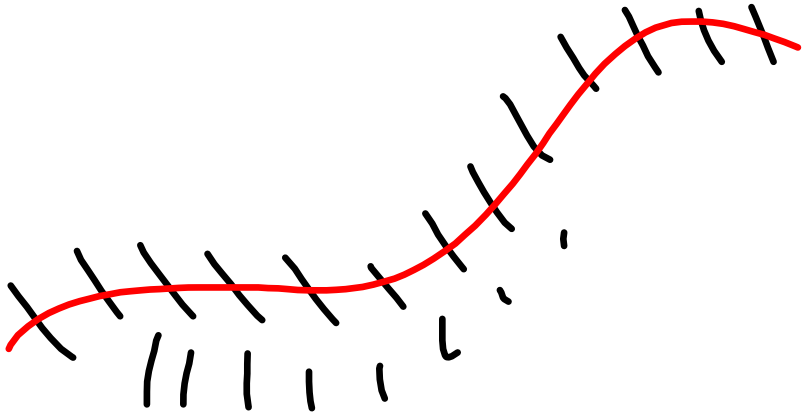
$y' = -\frac{x}{y}$





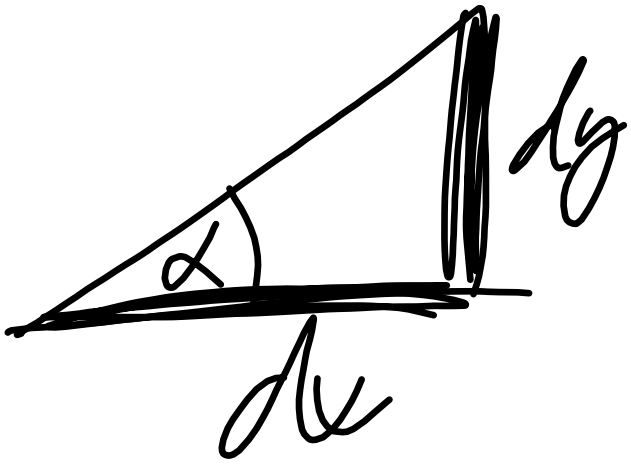
$y' = x^2$, $y(1) = 5$

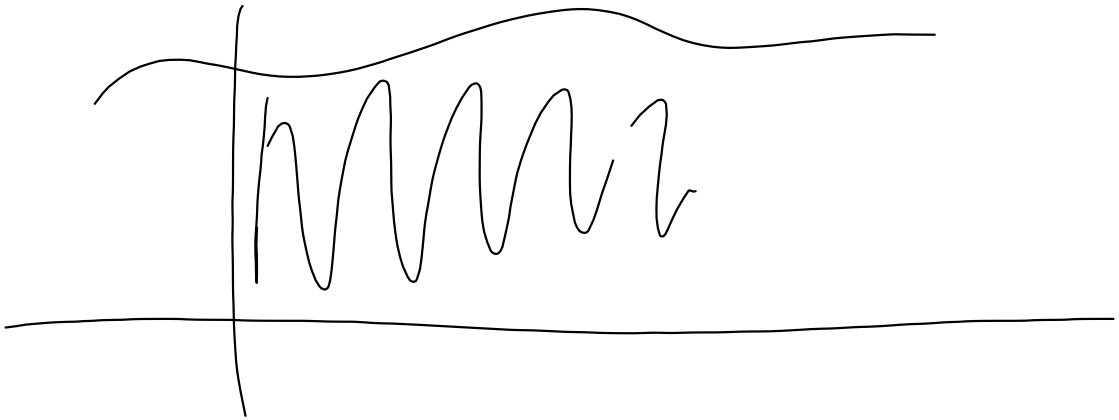
$y = \frac{x^3}{3} + C$

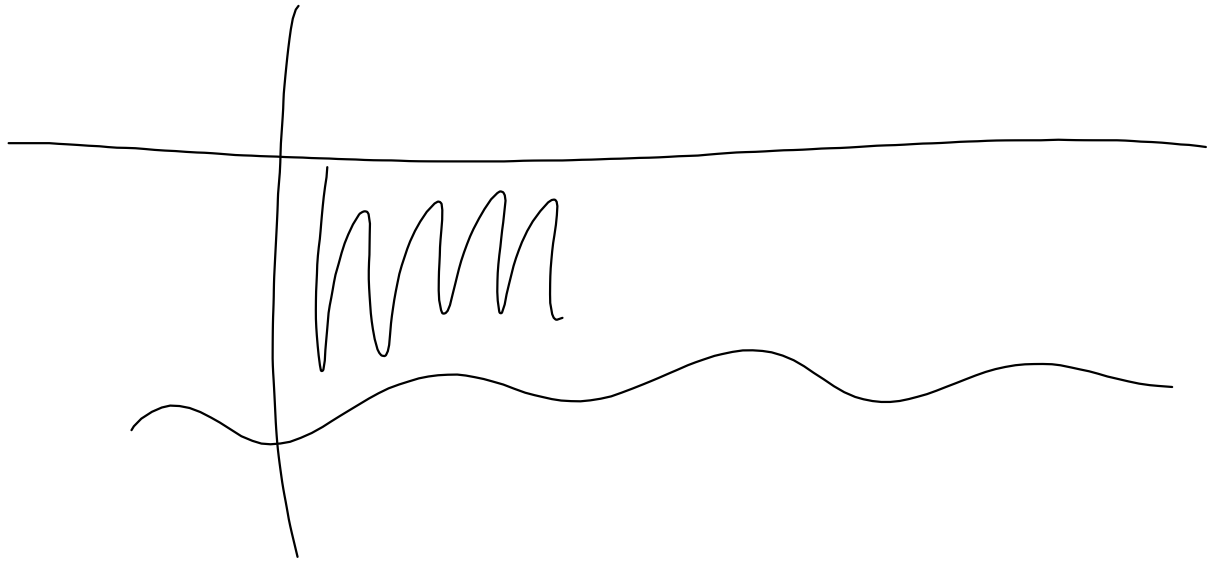
$5 = \frac{1}{3} + C$

$C = 5 - \frac{1}{3}$

$$y' = \frac{dy}{dx}$$







$$y' = x \cdot y \qquad x^y$$

$$= e^{x+y} = e^x \cdot e^y$$

$$x^y = e^{\ln x^y} = e^{y \cdot \ln x}$$

$$\sin(x+y) \parallel \sin(x \cdot y)$$

$$\left(\frac{x^2}{y^3}\right)'_y = x^2 \cdot \left(y^{-3}\right)'_y =$$

$$= x^2 \cdot (-3) \cdot y^{-4}$$

$g(y) = 0 \Longrightarrow y = \ldots ?$

$$e^{\ln|x|+C} = e^{\ln|x|} \cdot e^{C}$$

$$=$$

$$y(10) = 1 \qquad 1 = \frac{1}{1-10K}$$

$$\frac{dy}{dx} = y' = \frac{y}{x} \qquad y \neq 0$$

$$\int \frac{1}{y}\,dy = \int \frac{1}{x}\,dx$$

$$\ln|y| = \ln|x| + c$$

$$|y| = |x| \cdot e^{c}$$

$$y = x \cdot K$$

~~$K \neq 0$~~

$$2(x) = \frac{y(x)}{x} = 1$$

$$y = x$$

$$v' + 2 = 5 + \frac{3}{v}$$

$$\frac{dv}{dx} = 3 + \frac{3}{v} = \frac{3v+3}{v}$$

$$\frac{v}{3v+3}\,dv = 1\,dx$$

$$y = ax + b$$

$$y' = a(x) \cdot y$$

$$\frac{dy}{dx} = a(x) \cdot y \Rightarrow \frac{1}{y}\,dy = a(x)\,dx$$

$$\vdots$$

$$N_1 - N_2 = |$$

$$N_1 = N_2 + |$$