

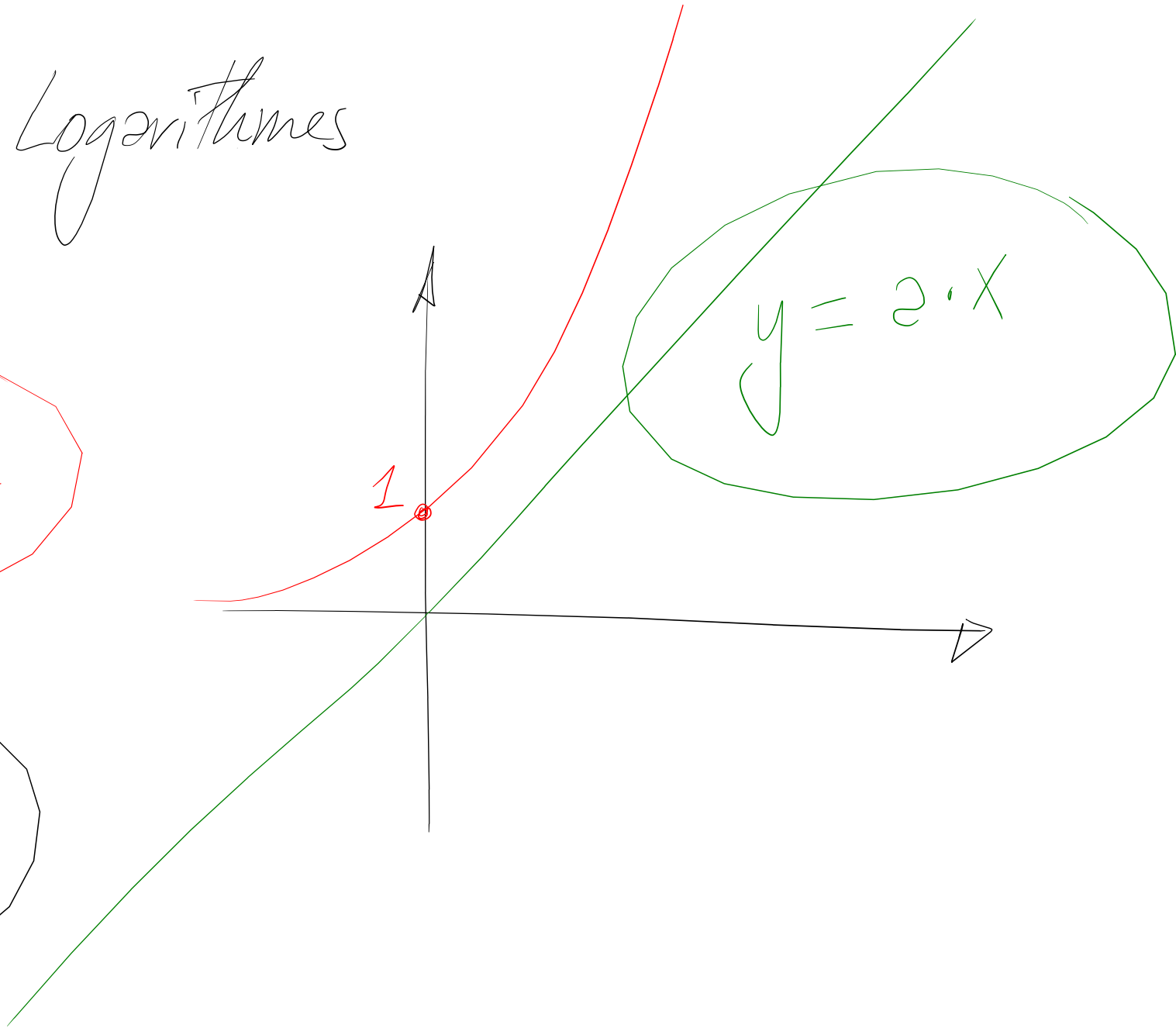
Exponentielles

Logarithmes

Croissance exponentielle

$2 > 0$

2^x
base
exposant.
 $x \in \mathbb{R}$



1	0
2	1
4	2
8	3
16	4
32	5

↖
 2^x

$$2^{17} = 2^{\frac{17}{20}} = \sqrt[20]{2^{17}}$$

$$2^{\sqrt{2}}$$

$$2^x$$

$$3^x = 3^{x+2} \Leftrightarrow x = x+2$$

$$x+3 = 1-x$$

$$x^2 + 4x + 2 = 0$$

$$\Leftrightarrow 0 = 2$$

$$x^3 - x - 1 = 0$$

$$3^x = 3^y$$

$$\Leftrightarrow x = y$$

Pas de solutions

$$\cos x = \frac{1}{2}$$

$$2^{1-x} = 2^{x+1}$$

$$\Leftrightarrow$$

$$1-x = x+1$$

$$\Leftrightarrow$$

$$2x = 0$$

$$x = 0$$

$$9^{x^2} = (3^2)^{x^2} = 3^{2 \cdot x^2}$$

$$(2^m)^n = 2^{m \cdot n}$$

$$3^4 = 9^2$$

$$9^{+2} \rightsquigarrow 3^{+4}$$

$$\sqrt[4]{3} = \sqrt[9]{\sqrt{2}}$$

~~$$\sqrt{3^2} = 3^{\sqrt{2}}$$~~