

Hugo T. y Hugo A.

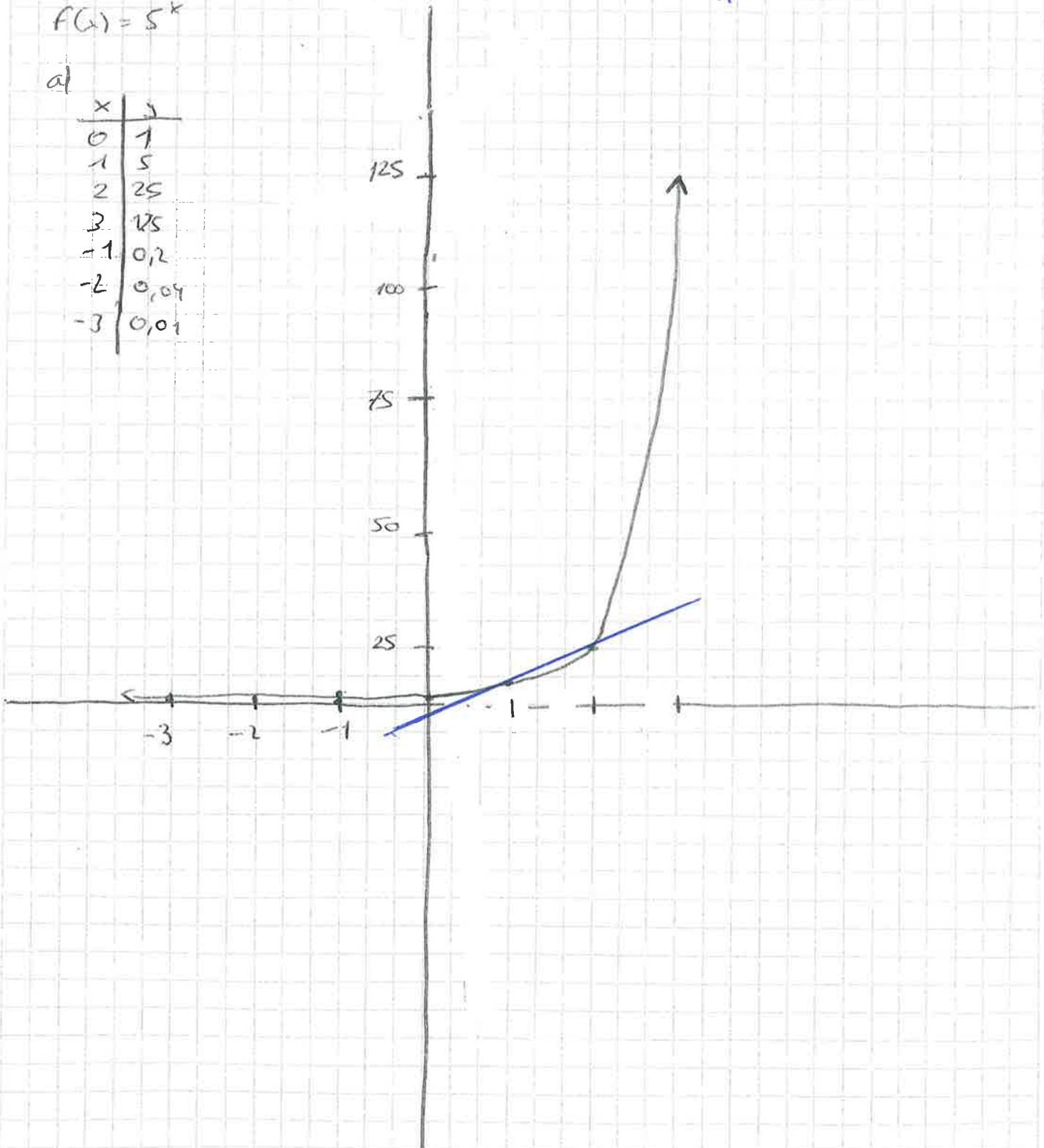
8

$$f(x) = 5^x$$

a)

x	y
0	1
1	5
2	25
3	125
-1	0,2
-2	0,04
-3	0,01

$$TVM = \frac{25 - 5}{1} = \boxed{20}$$



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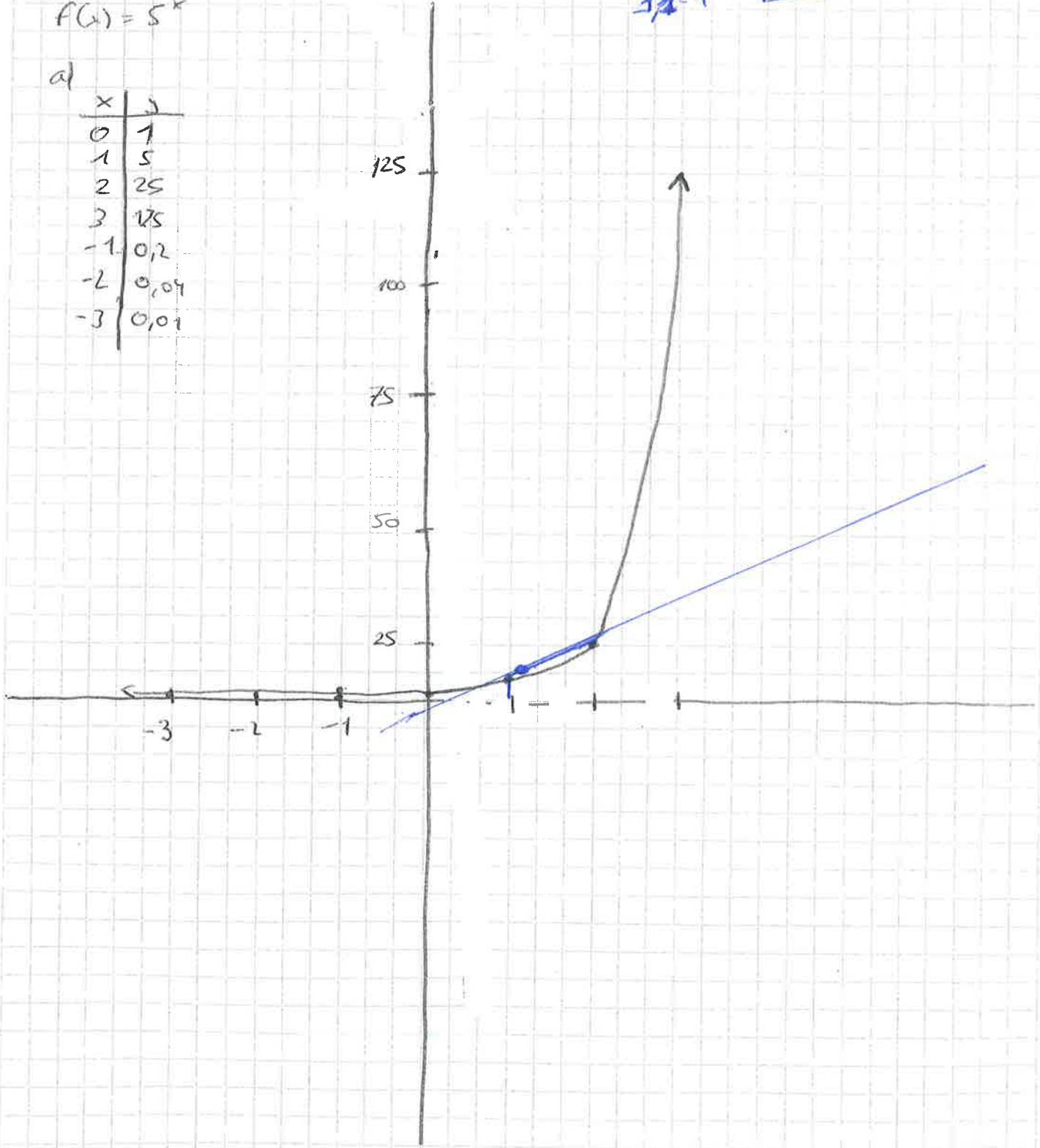
8

$$f(x) = 5^x$$

$$TVM = \frac{5^{1,1} - 5^1}{1,1 - 1} = \boxed{8,73}$$

a)

x	y
0	1
1	5
2	25
3	125
-1	0,2
-2	0,04
-3	0,01



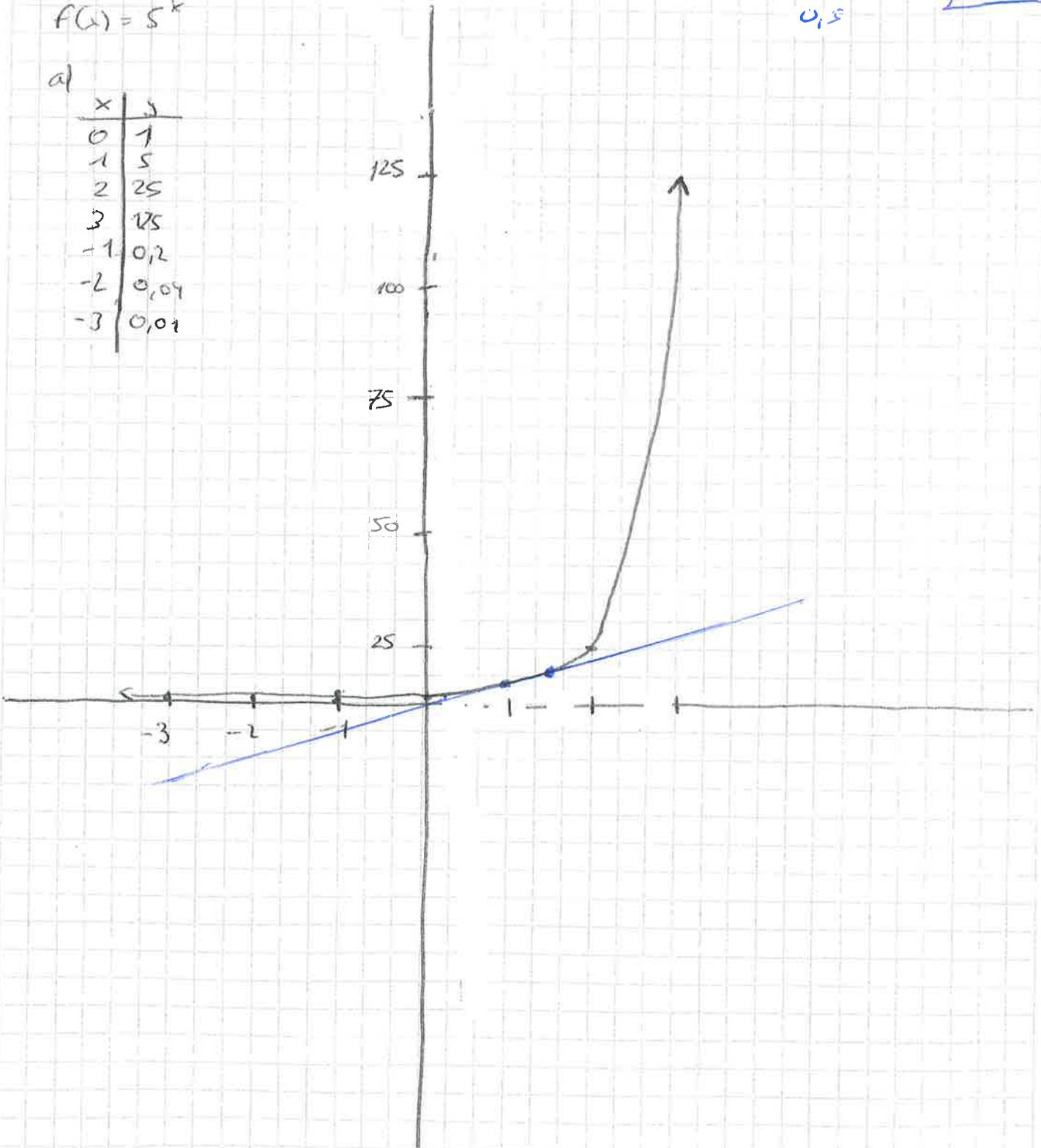
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$$f(x) = 5^x$$

a)

x	y
0	1
1	5
2	25
3	125
-1	0,2
-2	0,04
-3	0,01

$$TVM = \frac{5^{3,5} - 5^{-1}}{0,5} = \boxed{12,36}$$



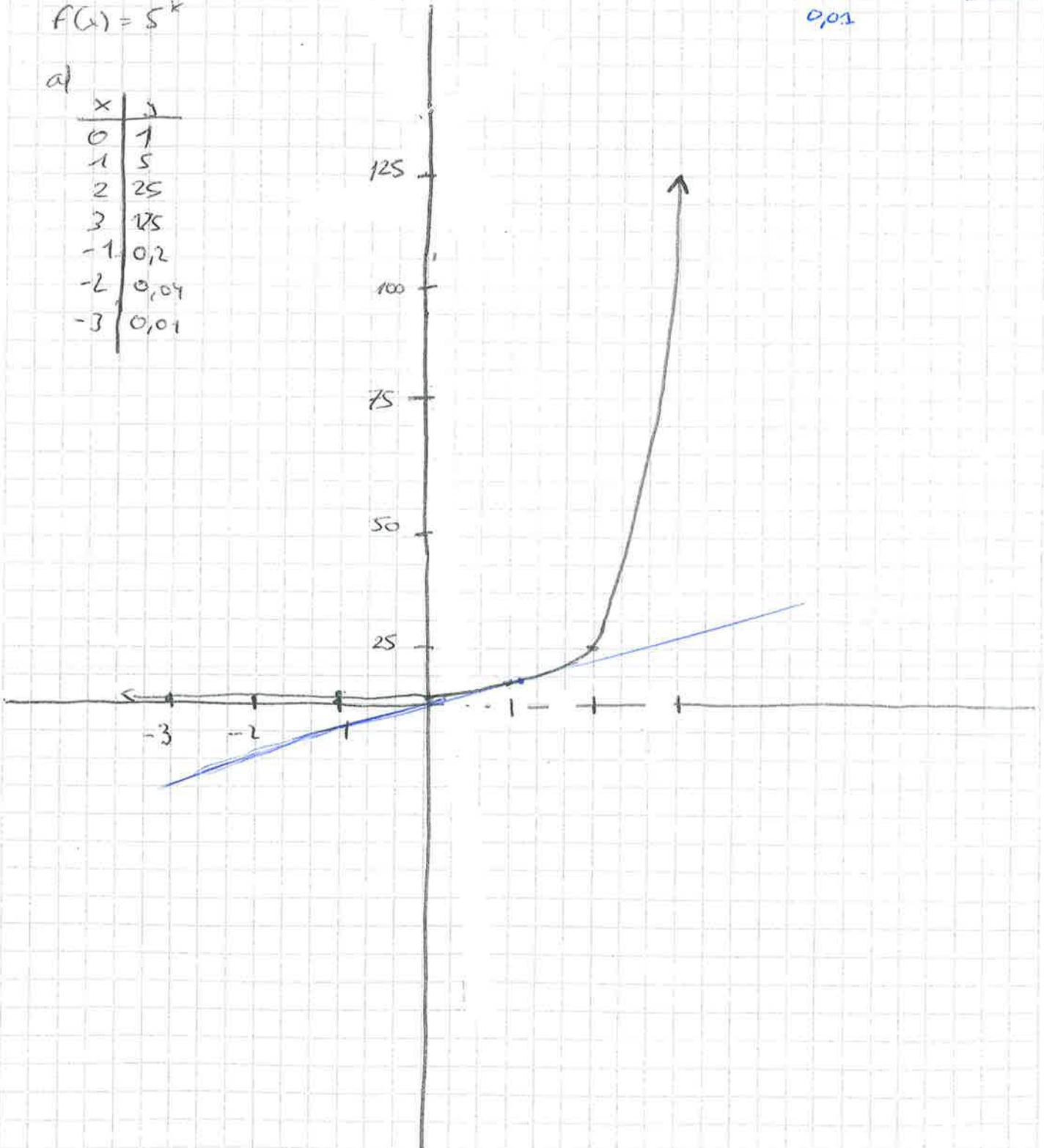
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$$f(x) = 5^x$$

a)

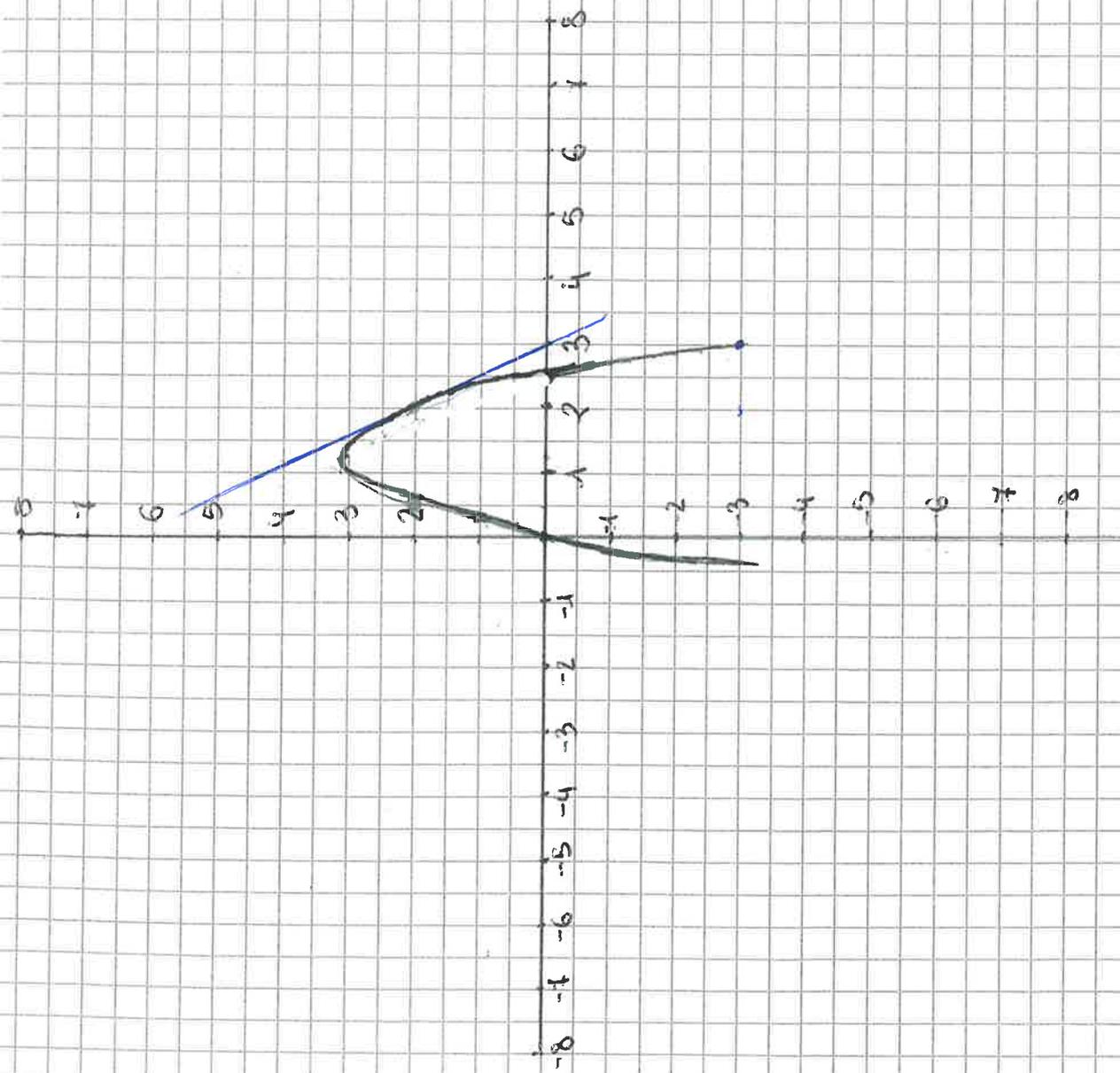
x	y
0	1
1	5
2	25
3	125
-1	0,2
-2	0,04
-3	0,01

$$TKM = \frac{5^{3,01} - 5^3}{0,01} = \boxed{8,11}$$



$$\text{T.V.H. } [2,3] = \frac{f(6) - f(2)}{6 - 2} =$$

$$\frac{f(3) - f(2)}{3 - 2} = \frac{-3 - 2}{3 - 2} = -5$$



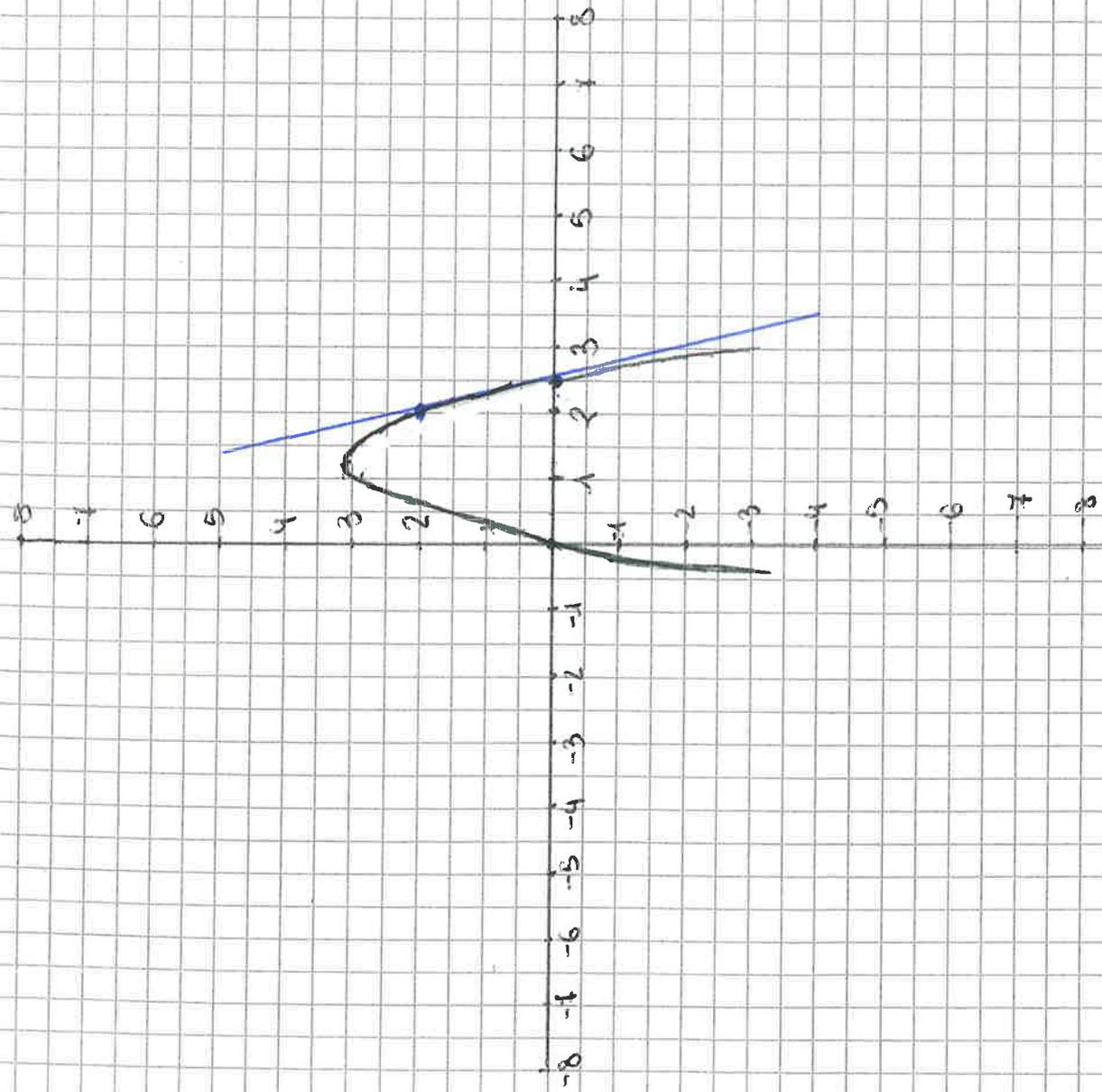
b)

Carla Díaz, de la y

Elena.

$$TVM(215, 8) = 8(6) =$$

$$\frac{8(7,5) - 8(7)}{2,5 - 2} = \frac{0 - 2}{0,5} = 4$$



$$(-2x^2 + 5x)$$

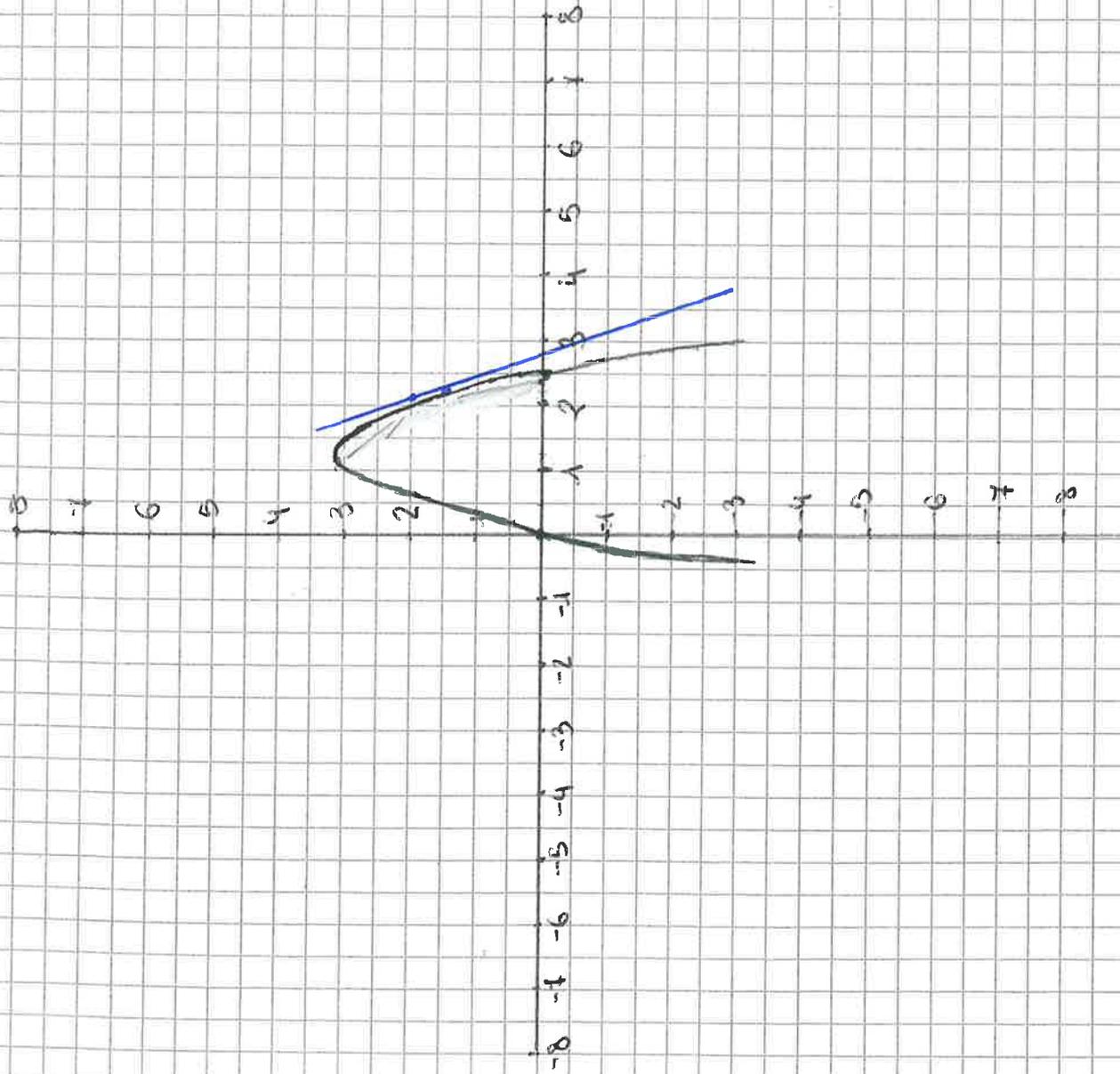
b)

$$T.V.M [2, 1, 1] =$$

$$= \frac{f(b) - f(a)}{b - a} =$$

$$= \frac{f(2) - f(1)}{2 - 1} =$$

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



$$-2x^2 + 5x - 2 = x^2 + x - 2$$

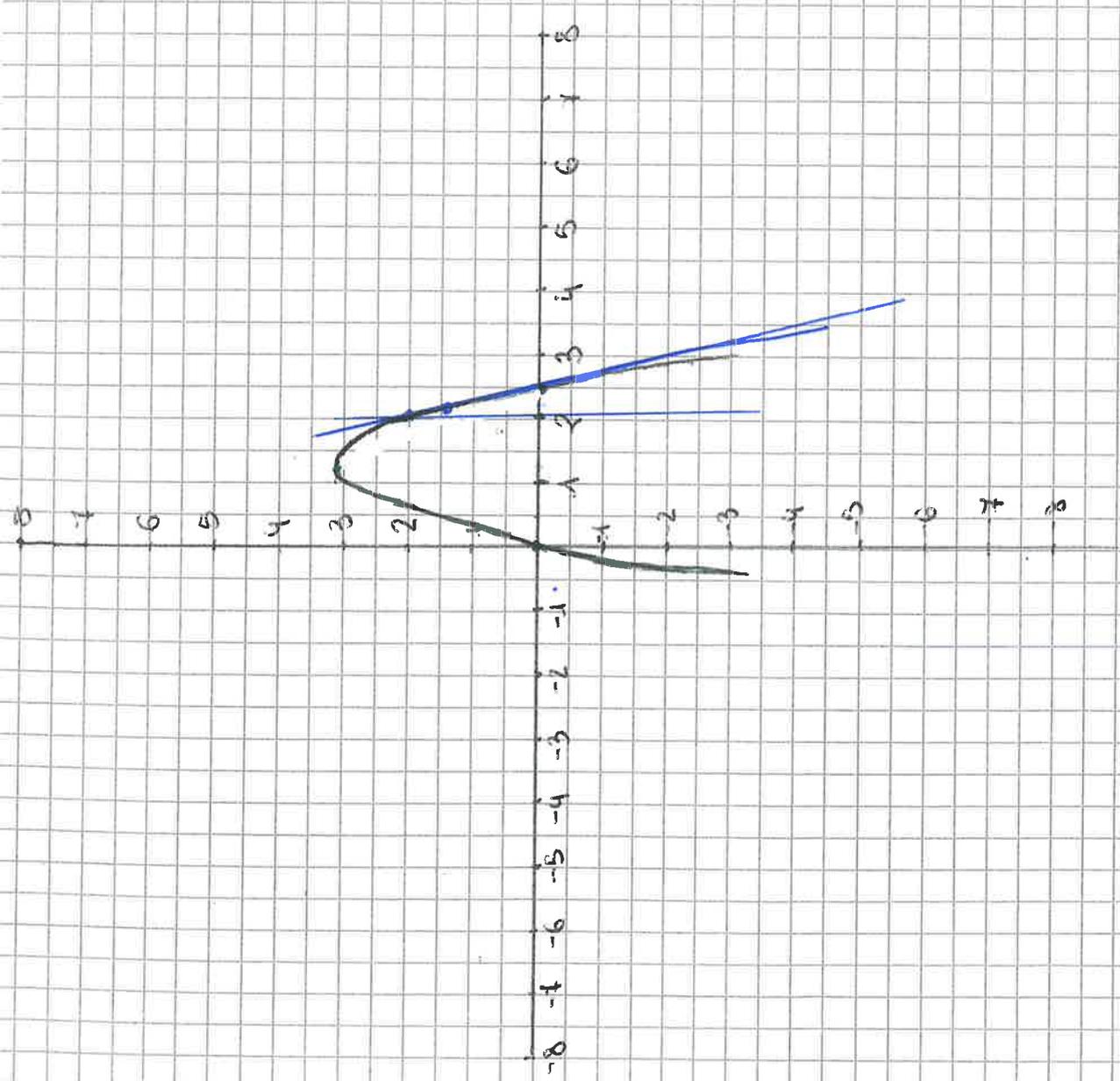
$$= 2$$

$$-2x^2 + 5x - 2 = -2 \cdot (1, 1)^2 + 5 \cdot (1, 1)$$

$$= 1,68$$

$$T.V.M. [2, 201] = \frac{f(b) - f(a)}{b - a} =$$

$$\frac{f(201) - f(2)}{201 - 2} = \frac{197 - 2}{199} = -3$$



b)

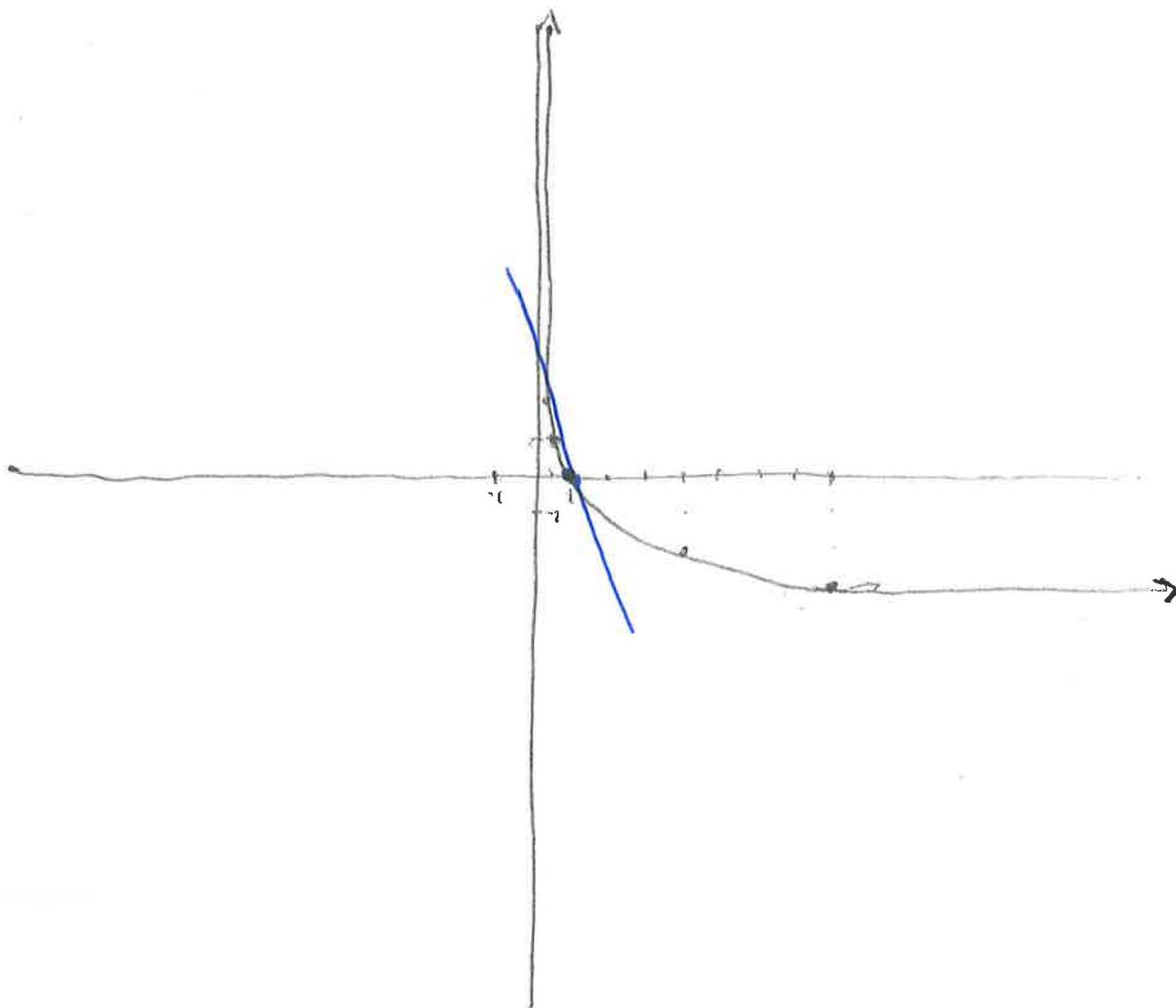
Intervalo $[1; 101]$

$$\frac{f(1.01) - f(1)}{0.01} = \frac{-0.01 - 0}{0.01} = \boxed{-1}$$

⊙

$$f(x) = \log_{\frac{1}{2}} x$$

x	y
1	0
8	-3
4	-2
2	-1
$\frac{1}{2}$	1
$\frac{1}{4}$	2



⑤

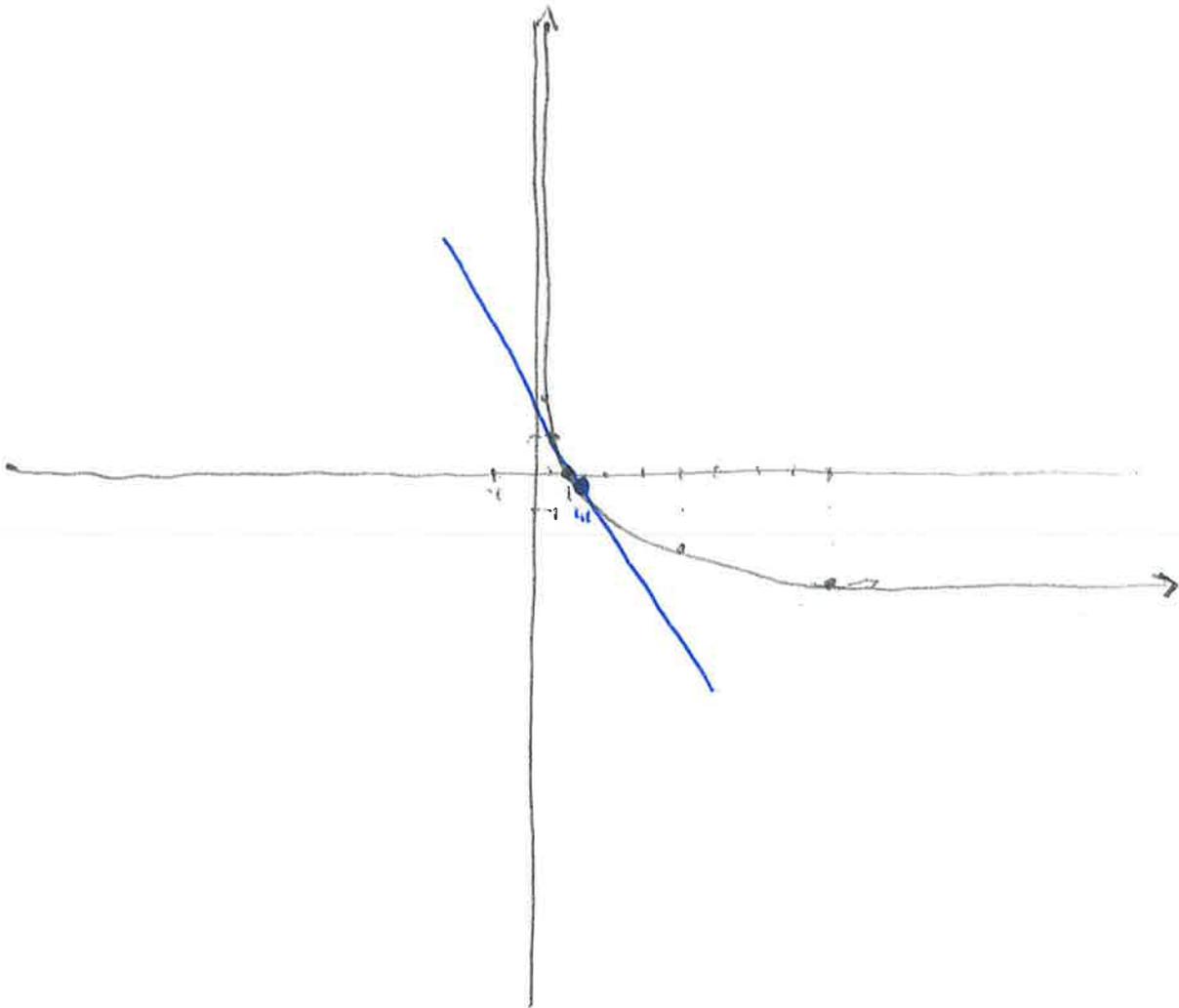
$$f(x) = \log_{\frac{1}{2}} x$$

x	y
1	0
8	-3
4	-2
2	-1
$\frac{1}{2}$	1
$\frac{1}{4}$	2

③) Representa en gráficas

$$TVM [1, 1.1] = \frac{f(1.1) - f(1)}{0.1} = \frac{-0.14 - 0}{0.1} = -\frac{1.4}{1}$$

$$f(1.1) = 0 \quad \frac{1}{2} f(1.1) = -0.14$$



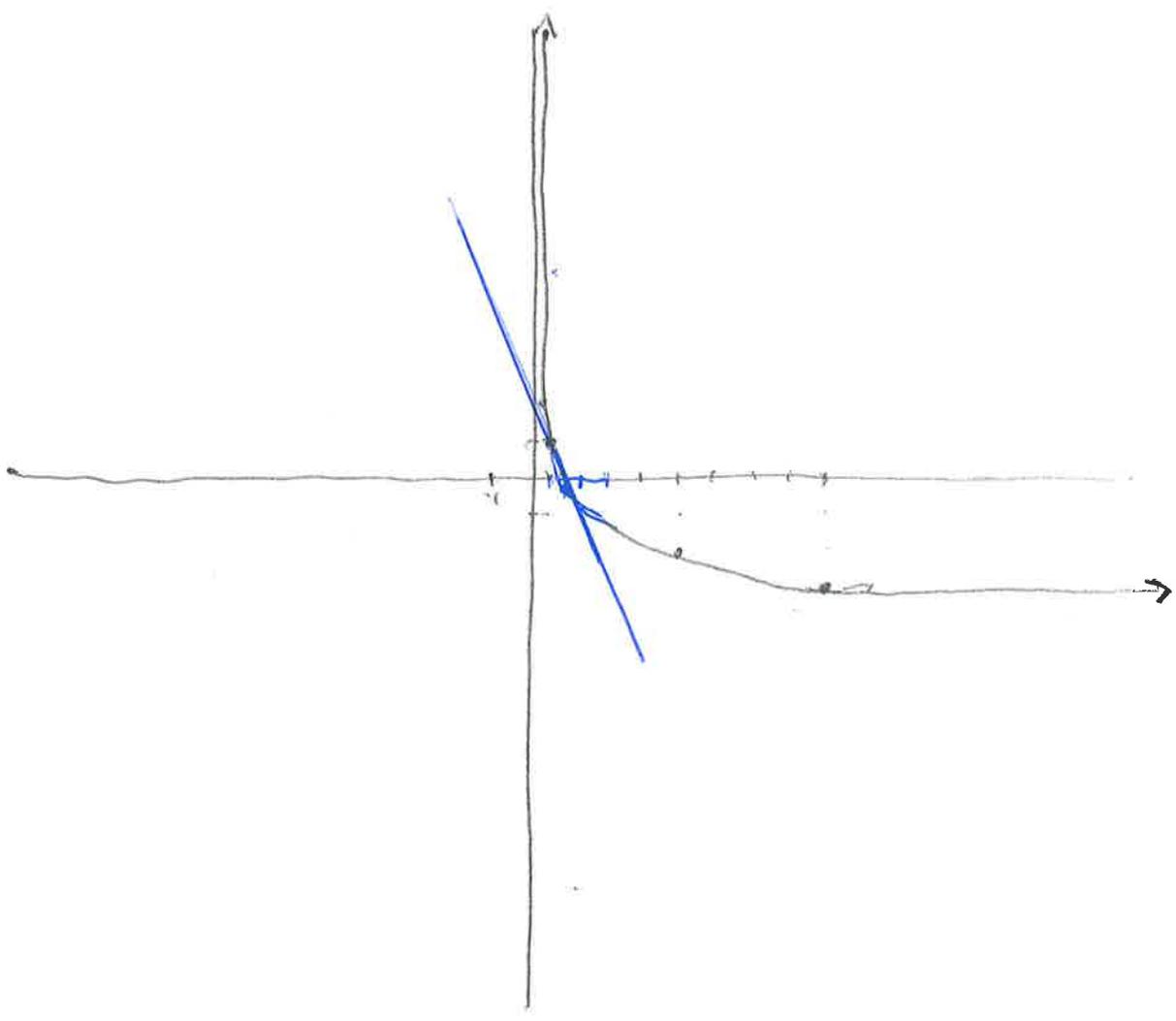
9

$$f(x) = \log_{\frac{1}{2}} x$$

x	y
1	0
8	-3
4	-2
2	-1
$\frac{1}{2}$	1
$\frac{1}{4}$	2

b) $[1; 1,5]$

$$c) \frac{-0,8 - 1}{1,5 - 1} = \frac{-1,5}{0,5} = -3$$



9

$$f(x) = \log_{\frac{1}{2}} x$$

b) $[1, 2]$

c) $\frac{-1-0}{2-1} = \frac{-1}{1} = -1$

x	y
1	0
8	-3
4	-2
2	-1
$\frac{1}{2}$	1
$\frac{1}{4}$	2

