



11030

Mathématiques  
Evaluation



28/01

1)  $z = x^{-11}$  1

2)  $\det(\vec{u}, \vec{v}) = (2 \times 3) - (1 \times -1) = 7$  1

6)  $f'(1) = 2$  1 ;  $f'(-2) = -2$  1 ;  $f(2) > 0$  ~~est positif~~ 1

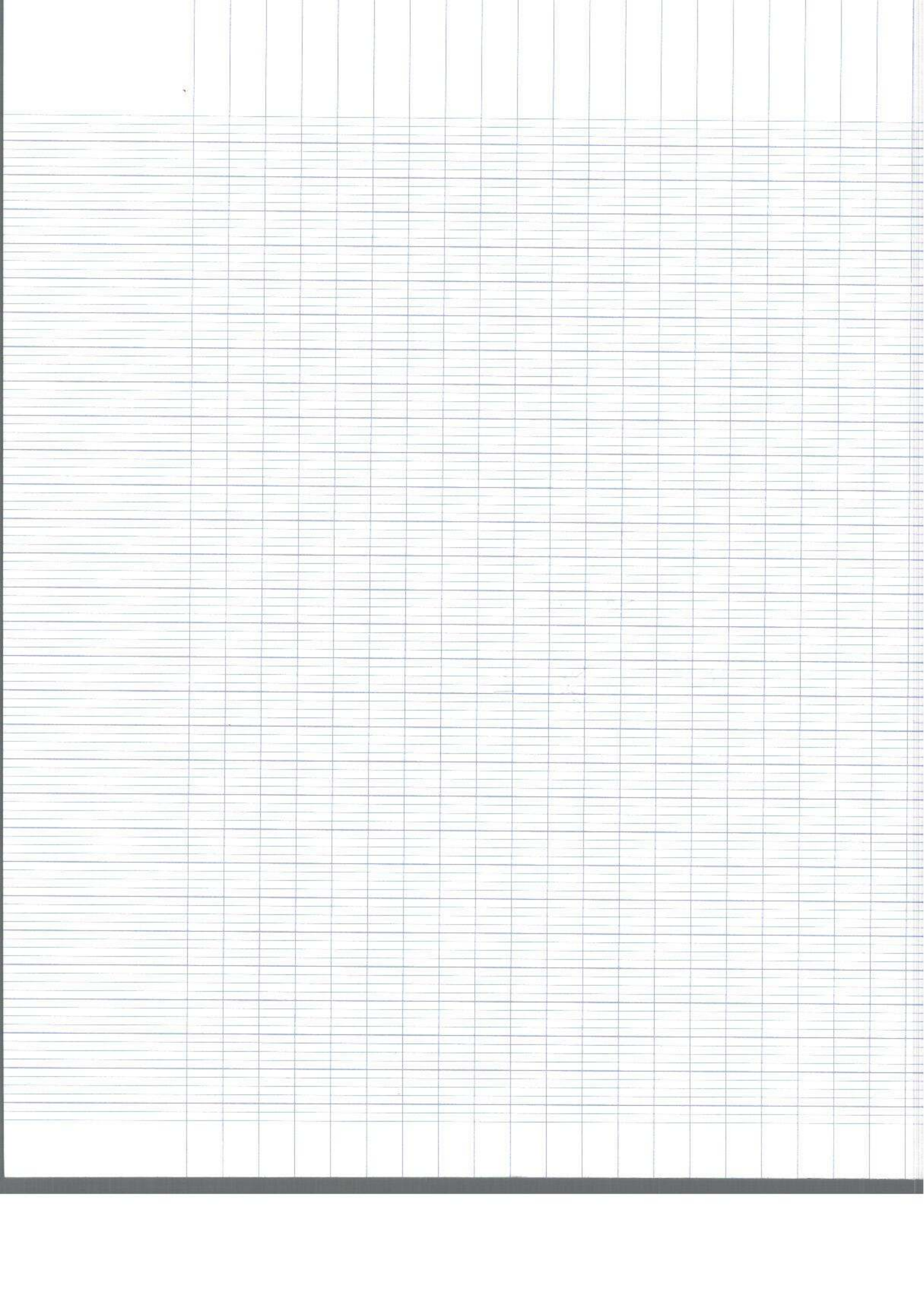
5)  $\sin(242\pi) = 0$  1

7)  $x_1 = 1$  1

3)  $u_3 = \cancel{7} \neq 0$

4)  $P_A(B) = \cancel{\frac{3}{16}} \frac{3}{4}$  1

$\frac{2}{3}$



14420

Vendredi 28 janvier 2022

Interro

1)  $x^{-11}$  1

2)  $\det(\vec{u}^2; \vec{v}^2) = 7$  1

3)  $u_3 = -8$  1

4)  $P_A(B) = \frac{9}{16}$  0

5) 0

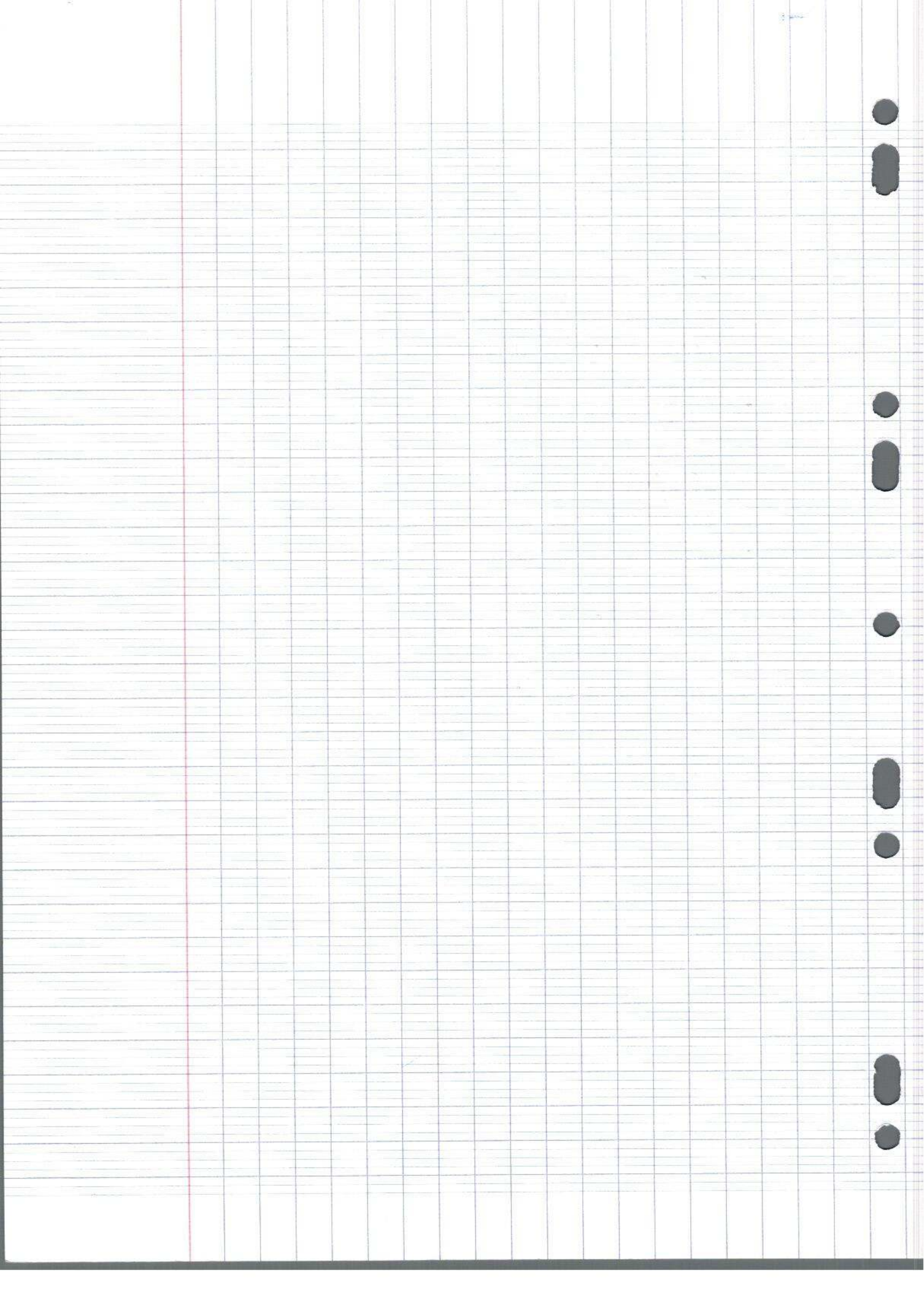
$\frac{6}{9}$

6)  $f'(-1) = 2$  1

$f'(-2) = -2$  1

0 signe  $f(2) = \underline{\text{pas de signe?}}$

7)  $x_1 = 1$  1



Interrogation  
28/01/22

$$1) z = x^{-11} \quad 1$$

$$2) \det(\vec{u}; \vec{v}) = 7 \quad 1$$

$$3) u_3 = -8 \quad 0$$

$$4) P_A(B) = \frac{3}{4} \quad 1$$

$$5) \sin(242\pi) = 0 \quad 1$$

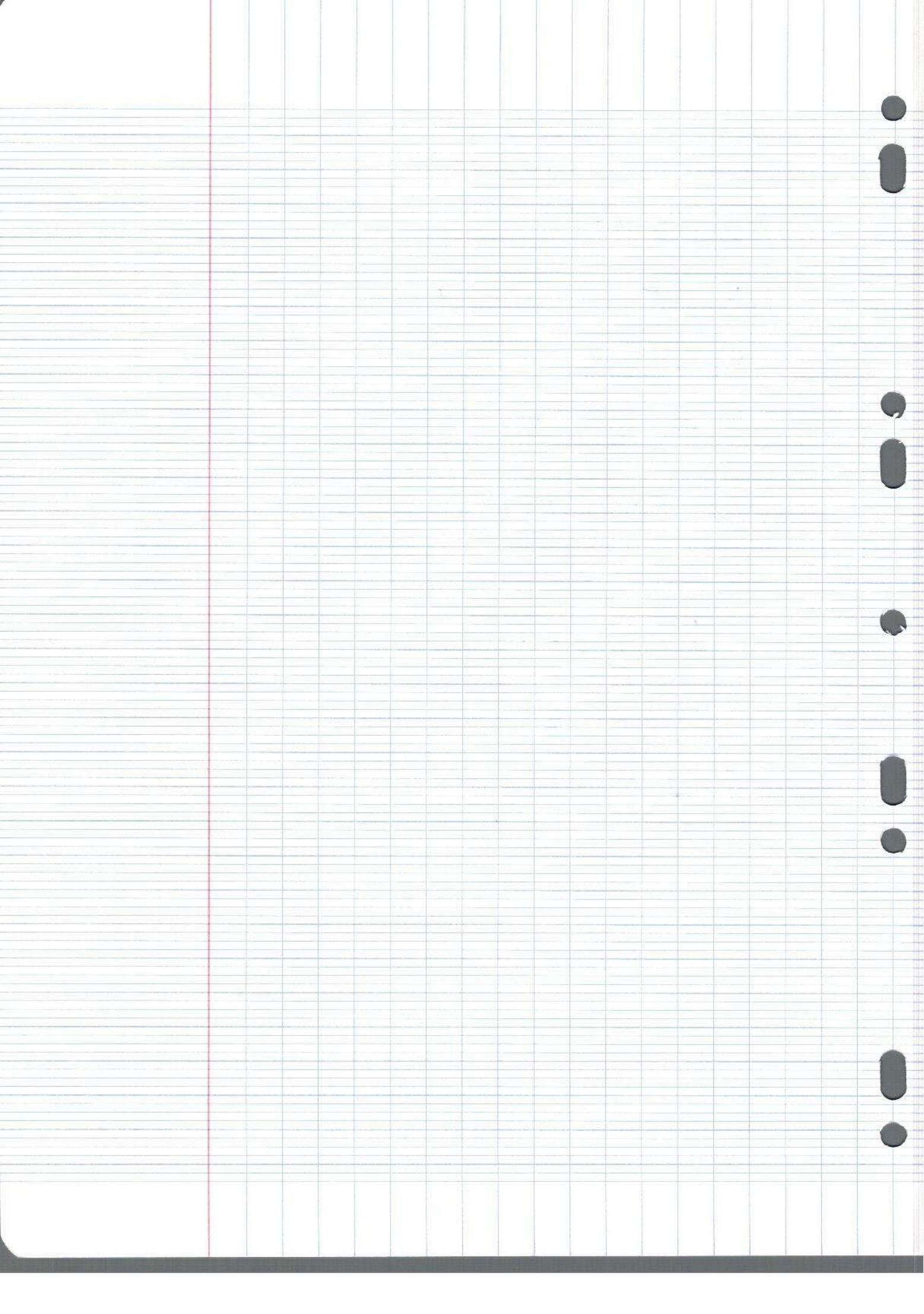
$$6) f'(2) = 2 \quad 1$$

$$f'(-2) = -2 \quad 1$$

$$f(2) \text{ est positif } > 0$$

$$7) 1 \text{ est une racine de ce polynôme} \quad 1$$

$\frac{7}{9}$



17220

Interno de Maths

1.  $z = z^{-1}$  1

2.  $\det(\vec{u}; \vec{v}) = 7$  1

3.  $\mu_3 = -8$  1

4.  $P_A(B) = \frac{9}{16}$  0

5.  $\sin(242\pi) = \frac{\sqrt{2}}{3}$  0

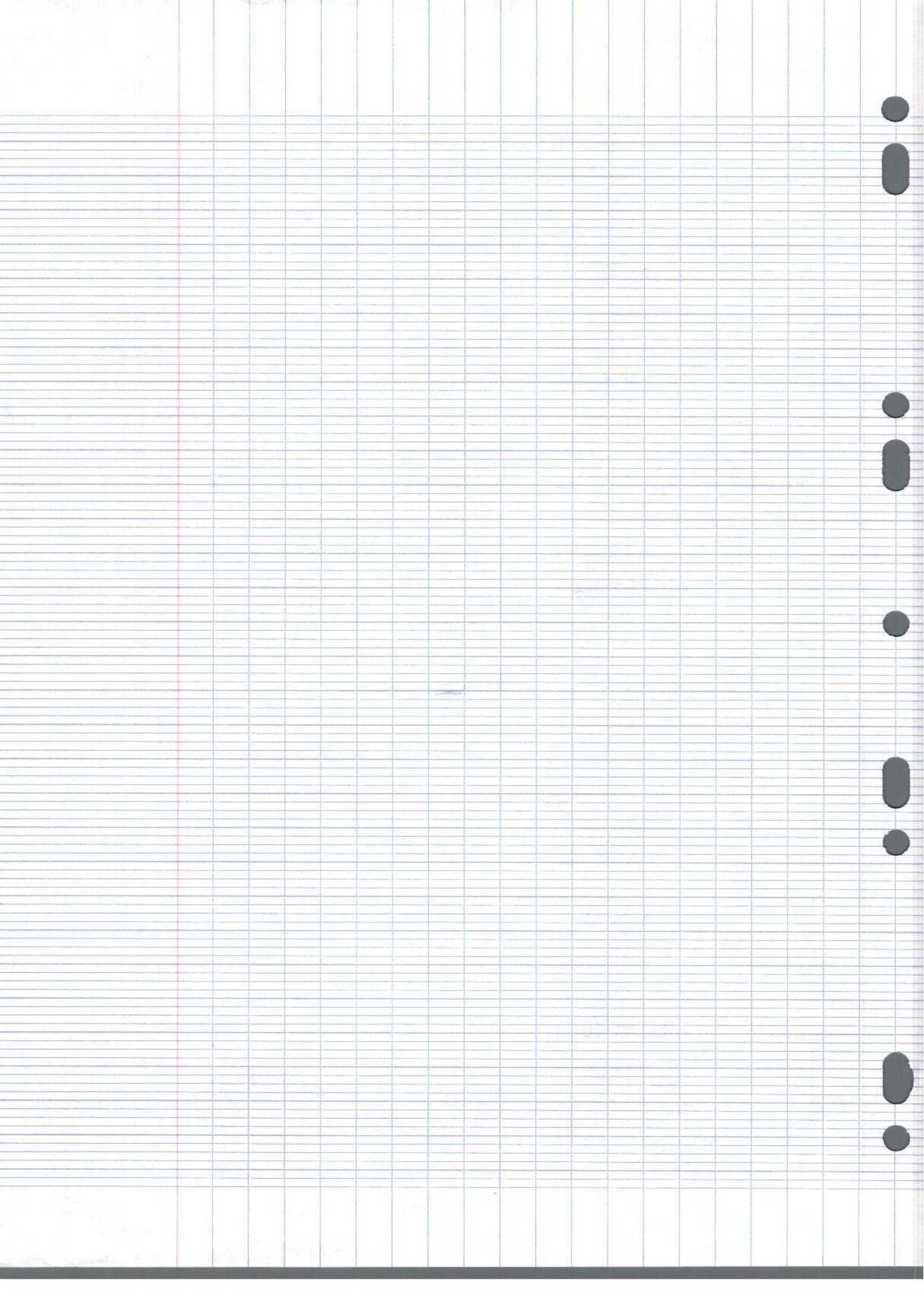
6.  $f'(1) = 2$  1

$f'(-2) = -2$  1

$f(2) > 0$  1

7.  $x_1 = 1$  1

$\frac{7}{9}$





11260

# INTERROGATION

①  $x^{-3}$  0

② 7 1

③ -8 1

④  $P_{\bar{A}}(B) = \frac{3}{4}$  1

⑤

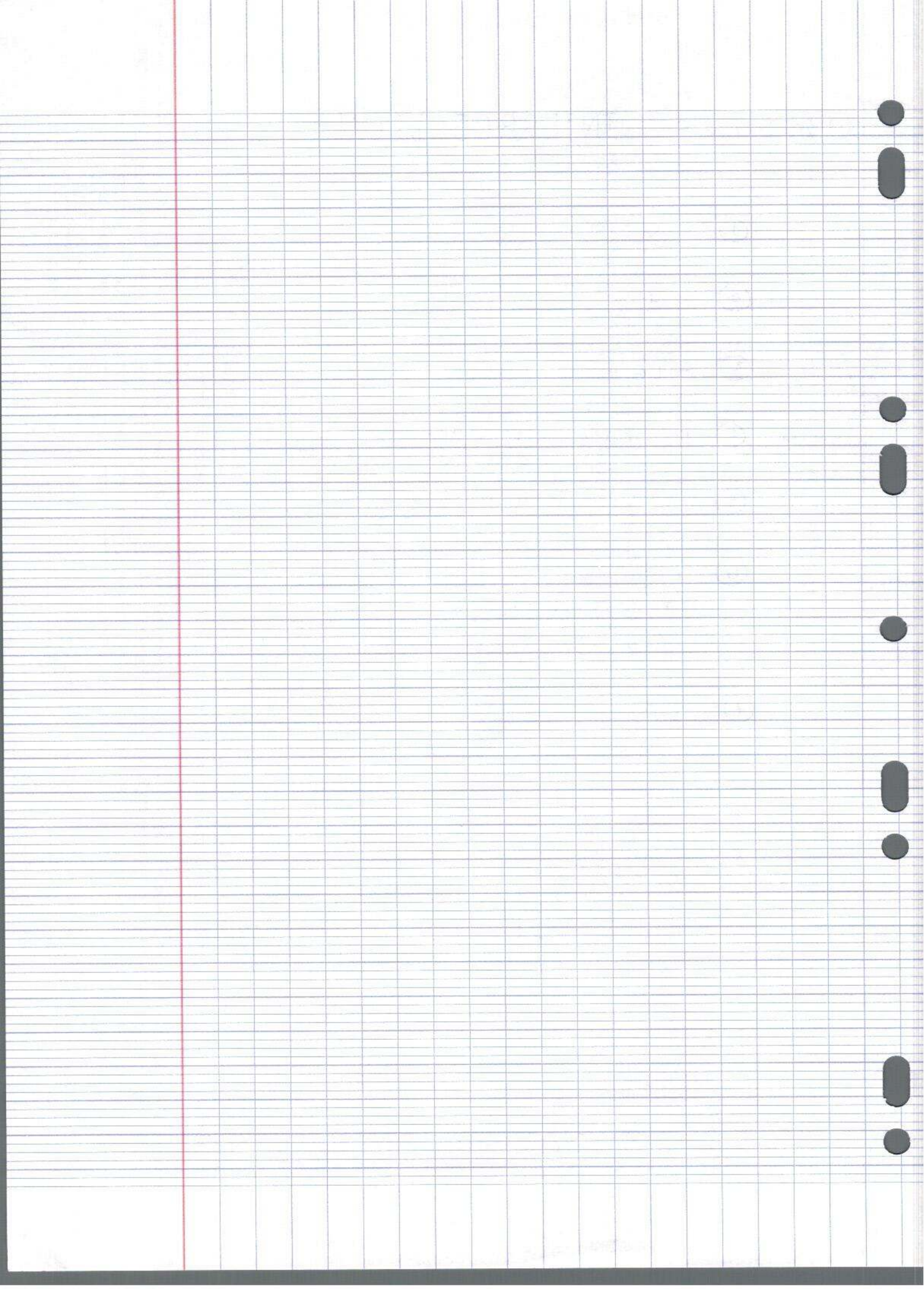
7/5

⑥  $f'(1) = 2$  1

$f'(-2) = -2$  1

$f(2) > 0$  1

⑦ 1 1



## Evaluation Math

Note

$$1. \frac{(x^{-4})^{-2} \times x^{-7}}{x^{12}} = x^{13} \quad 0$$

2. Je calcule le  $\det(\vec{u}, \vec{v})$ 

$$\begin{aligned} \det(\vec{u}, \vec{v}) &= \begin{vmatrix} 2 & -1 \\ 1 & 3 \end{vmatrix} \\ &= 2 \times 3 - 1 \times (-1) \\ &= 6 + 1 \\ &= 7 \quad \underline{1} \end{aligned}$$

3.  $u_0 = -1$  et  $u_3 = -6$  04. Calcule  $P_{\bar{A}}(B)$ 

$$\begin{aligned} P_{\bar{A}}(B) &= P(\bar{A}) \times P(\bar{A} \cap B) + P(A) \times P(A \cap B) \\ &= \frac{3}{4} \times \frac{3}{4} + \frac{1}{4} \times \frac{1}{4} \quad 0 \end{aligned}$$

5.  $\sin(242^\circ \pi) =$  0

$\frac{4}{g}$

6.  $f(1) = 2$  1

$f(-2) = -2$  1

$f(2) > 0$  1

7.

11330

1)  $Z = x^{-11}$  1

2)  $\det(\vec{u}, \vec{v}) = 7$  1

3)  $u_3 = -6$  0

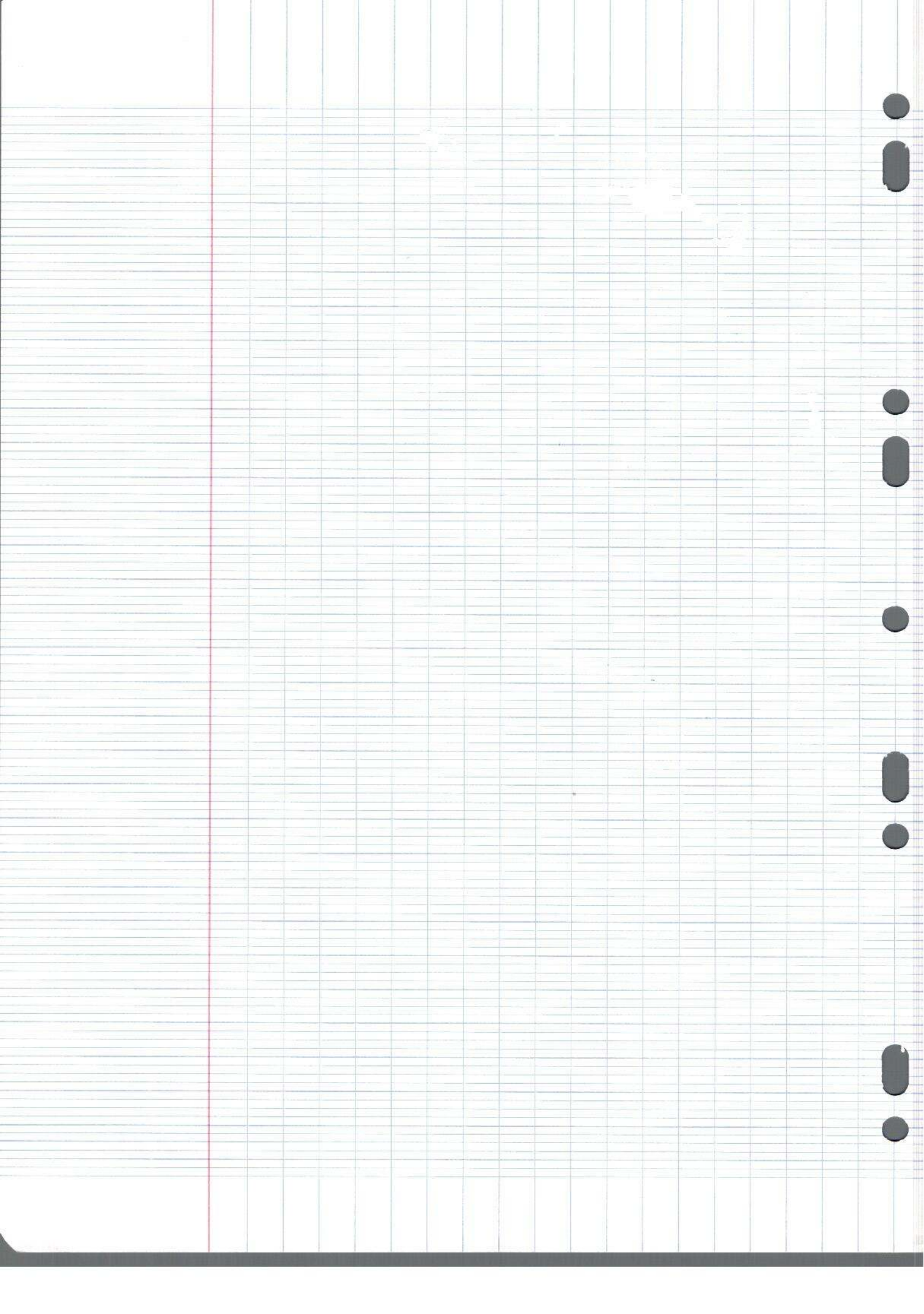
4)  $P_A(B) = \frac{3}{4}$  1

5)  $\sin(242\pi) = 0$  1

6)  $f'(1) = -1$  0  
 $f'(-2) = 0$  0  
 $f(2) = 0$  0

7) La racine est 1 1

9/5



11420

1.  $x^{-14}$  1

2.  $-1 - 6$   
 $-7$

$\det(\vec{v}^1; \vec{v}^2) = -7$  0

3. ~~uv~~  $uv = -8$  1

4.  $P_A B = \frac{9}{16}$  0

5.  $\sin(\pi) = 0$  1

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6.  $f'(1) = 2$  1

$f'(2) = -2$  1

$f(2) = 2$  0

7.  $x$  0

$$\frac{3}{4}$$

x

$$\frac{3}{5}$$

$$\frac{9}{10}$$



28/01/22

11430

①  $x^{-11}$  1

②  $\det(\vec{u}; \vec{v}) = 7$  1

$$\begin{vmatrix} 2 & -1 \\ -1 & 3 \end{vmatrix}$$

$$6 + 1 = 7$$

③  $M_3 = -8$  1

④  $P(\bar{A}) = \frac{3}{4}$  1 donc  $P_{\bar{A}}(B) = \frac{3}{4}$

$\frac{6}{9}$

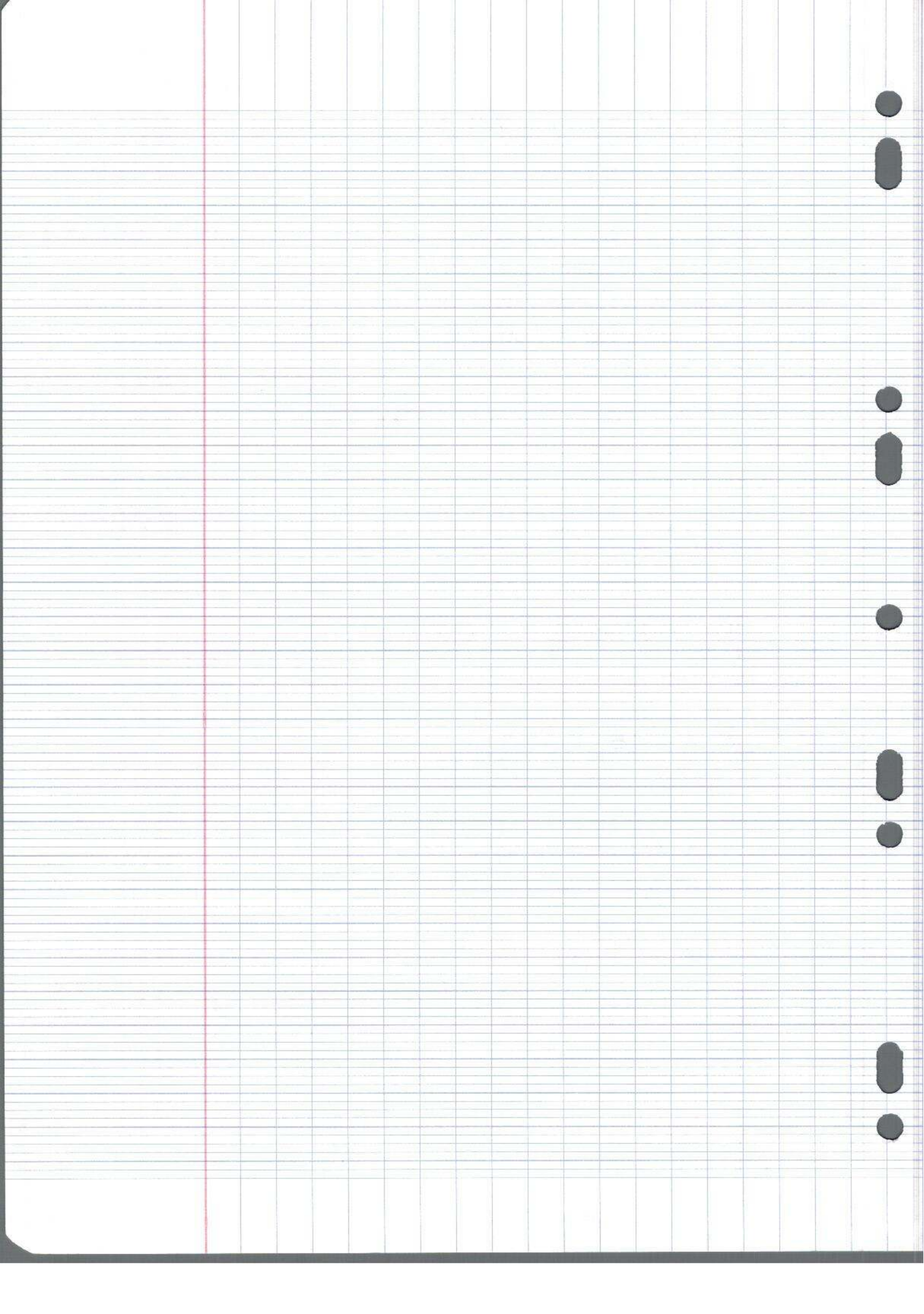
⑤  $\sin \pm \frac{\sqrt{2}}{2}$  0

⑥  $g'(1) = 2$  1

$g'(-2) = -2$  1

$g(2) = 1$  0

⑦

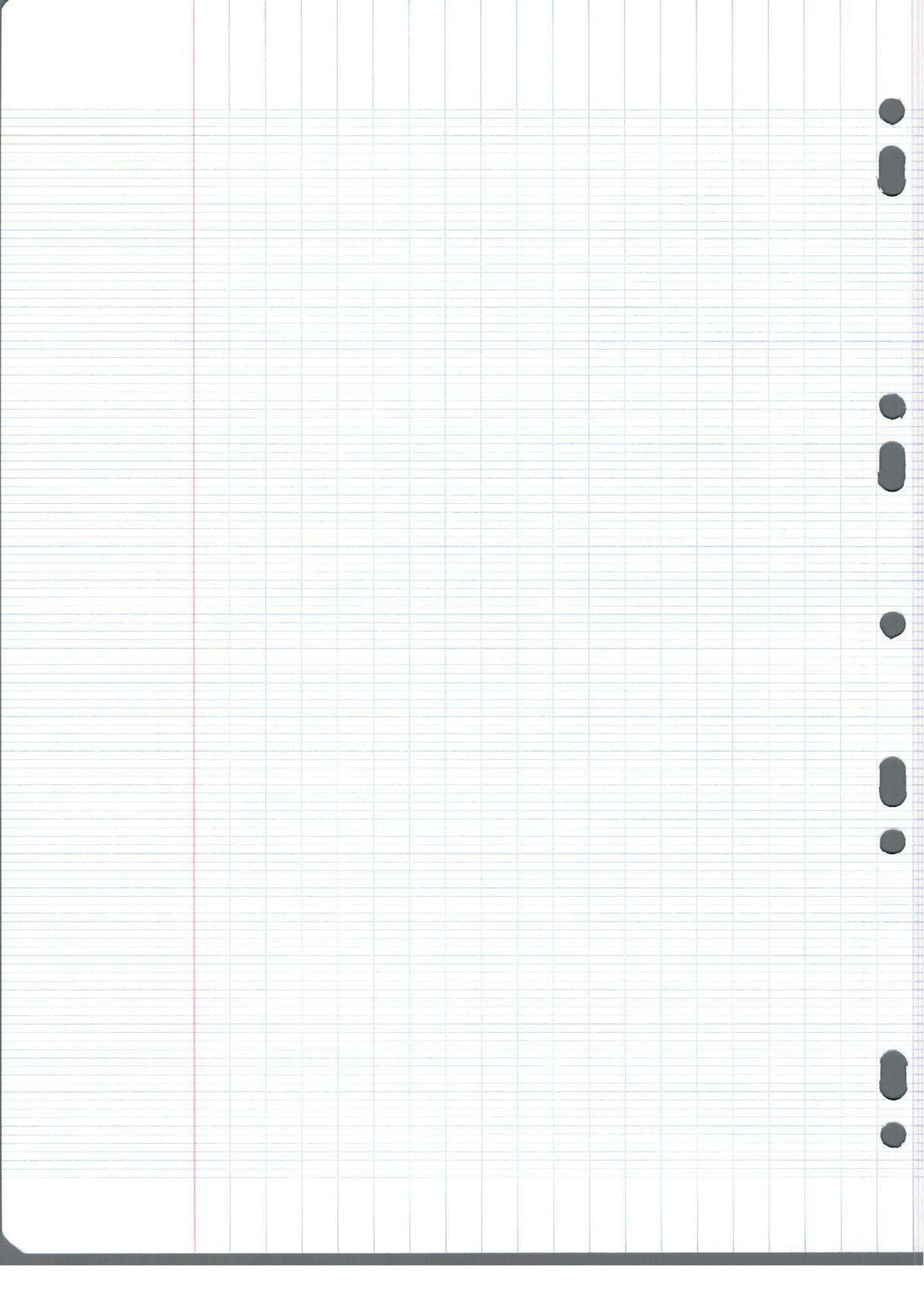


11490

- 1)  $x^{-11}$  1
- 2) 7 1
- 3)  $\mu_3 = -8$  1
- 4)  $\mathbb{P}_A(B) = \frac{1}{8}$  0
- 5)  $\sin(242\pi) =$  0
- 6)  $f'(1) = 2$  1
- $f'(-2) = -2$  1
- ~~$f(2)$  est négatif~~ 0

0 7)  $X$  est la racine de  $X^{120} + X^{119} + X^{118} + \dots + X^2 + X - 120$

9/5



11540  
1/15/20

## Interrogation de Math

1)  $x^{13} = 0$

2)  $\det(\vec{u}; \vec{v}) = 5 = 0$

3)  $\forall \mu_3 = -8 = 1$

4)  $P_A(B) = \frac{9}{16} = 0$

4  
9

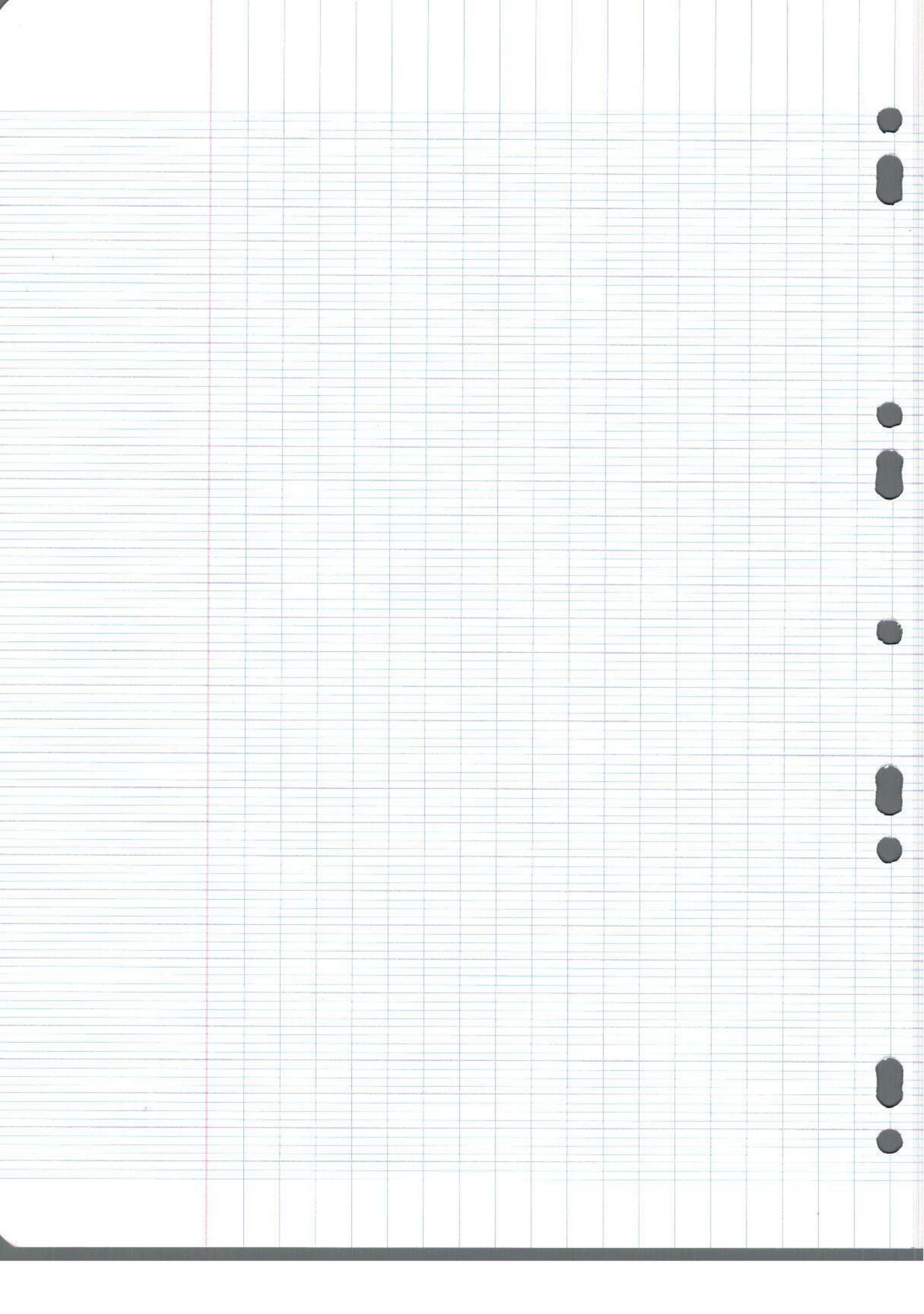
5)  $\sin(2 \cdot 4 \cdot 2 \pi) = 0 = 1$

6)  $f'(1) = 2 = 1$

$f'(-2) = -2 = 1$

$f(2)$  ~~est négative~~  $= 0$

7) 1 est une racine



11560

$$\begin{aligned}
 1) \quad Z &= \frac{(x^{-4})^{-2} \times x^{-7}}{x^{12}} \\
 &= \frac{x^8 \times x^{-7}}{x^{12}} \\
 &= \frac{x^{15}}{x^{12}} \\
 &= x^3 \quad 0
 \end{aligned}$$

$$2) \det(\vec{u}, \vec{v}) = \begin{vmatrix} 2 & -1 \\ 1 & 3 \end{vmatrix} = 0 \quad ?$$

$$\det(\vec{u}, \vec{v}) = (2 \times 3) - (1 \times -1) = 0$$

$$= 6 + 1 = 0$$

$$\det(\vec{u}, \vec{v}) = 7 \quad 1$$

$$3) \quad u_3 = ?$$

$$u_0 = -1 \quad u_1 = 1 \quad u_2 = 3 \quad u_3 = 5$$

$$\boxed{u_3 = 5} \quad 0$$

$$4) \quad P_A(B) = \frac{3}{4} \quad 1$$

$$\triangle 5) \quad \sin(242\pi) = 0$$

$$6) = f'(1) = 2 \quad 1$$

$$f'(-2) = -2 \quad 1$$

$$f(2) = 2 \text{ or de signe } \overset{>0}{\text{positif}} \quad 1$$

$$\frac{5}{9}$$

1 7) 1 est une racine



11590

1)  $z = x^{-11}$  1

2) Le  $\det(\vec{u}; \vec{v})$  vaut 7 1

3)  $u_3$  vaut 8 0

$\frac{3}{9}$

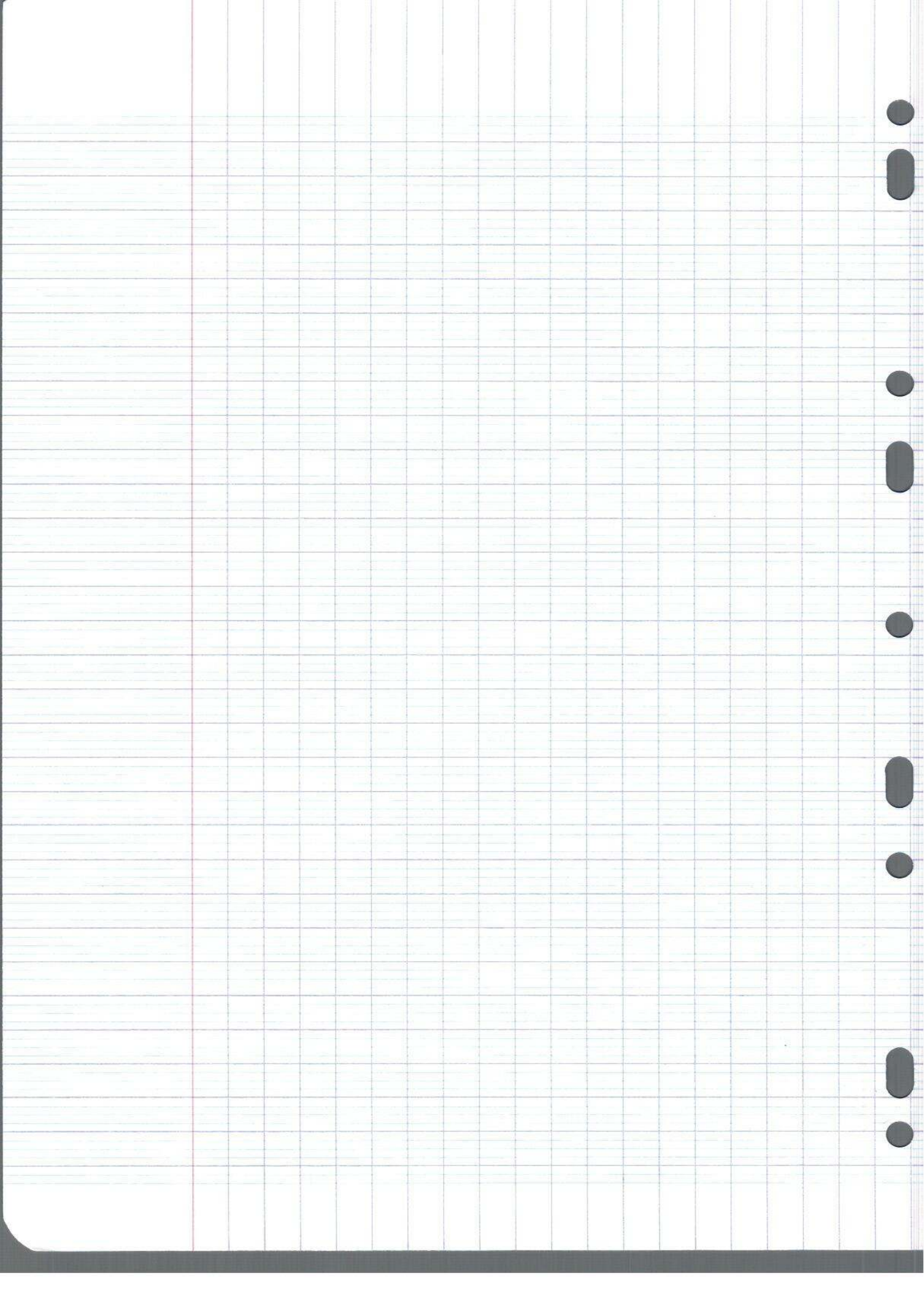
4)  $f'_A(B)$  vaut  $\frac{3}{4}$  1

5) La valeur exacte de  $\sin(242\pi)$  vaut: 0

6)  $f'(1) = -1$  0

$f'(-2) = 0$  0

$f(2) = 2$  0



28/01/2022

11630

1)  $z = z^{-11}$

2)  $\det(\vec{u}, \vec{v}) = 7$

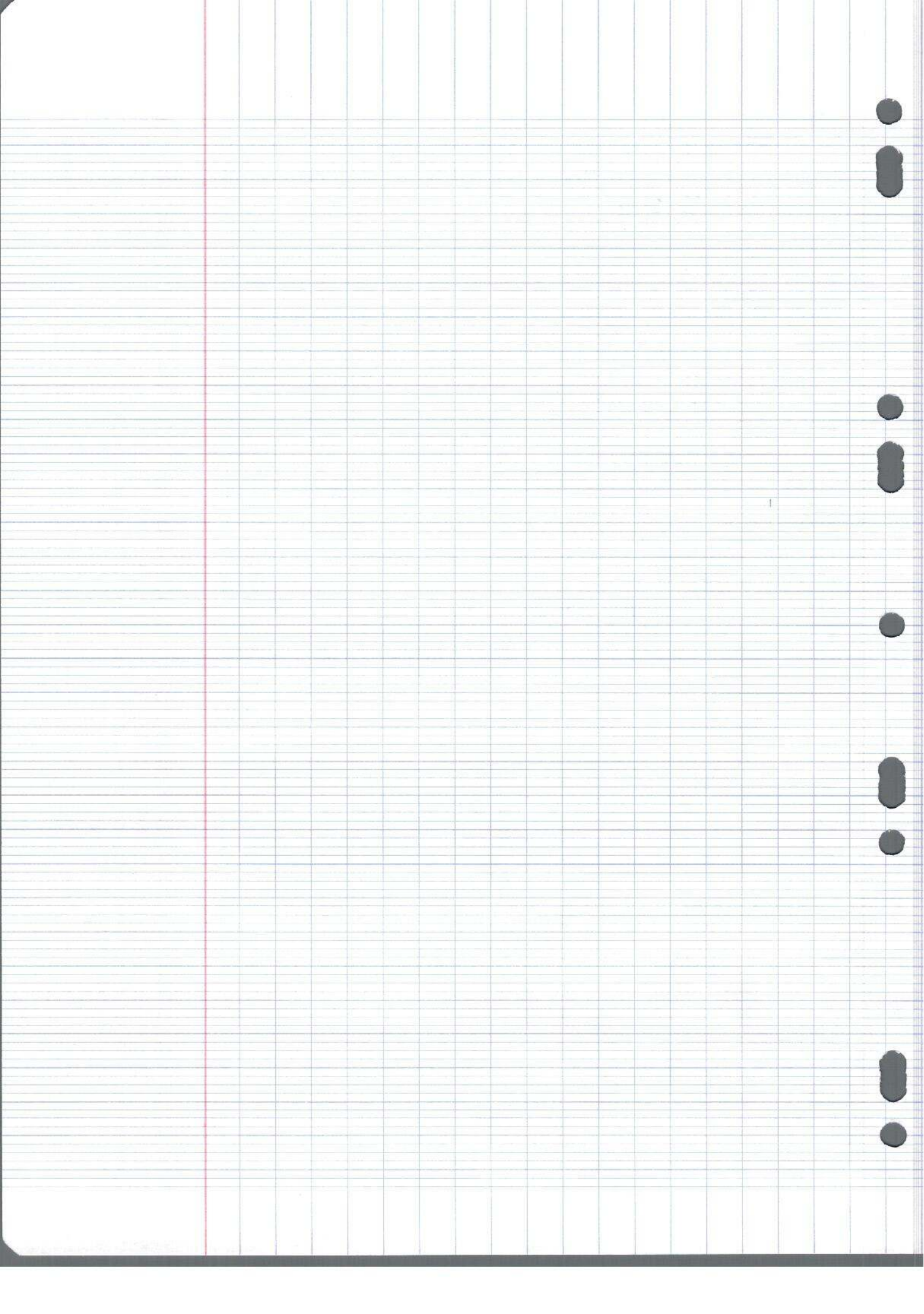
3)  $u_3 = 5$

4)  $P_{\vec{a}}(\vec{b}) = \frac{9}{16}$

5) 0

$\frac{6}{9}$  6)  $f'(-1) = 2$   
 $f'(-2) = -2$   
 $f(2) > 0$

7) 120



28/01/22

11670

1)  $x^{-11}$   $1$

2)  $7$   $1$

3)  $5$   $0$

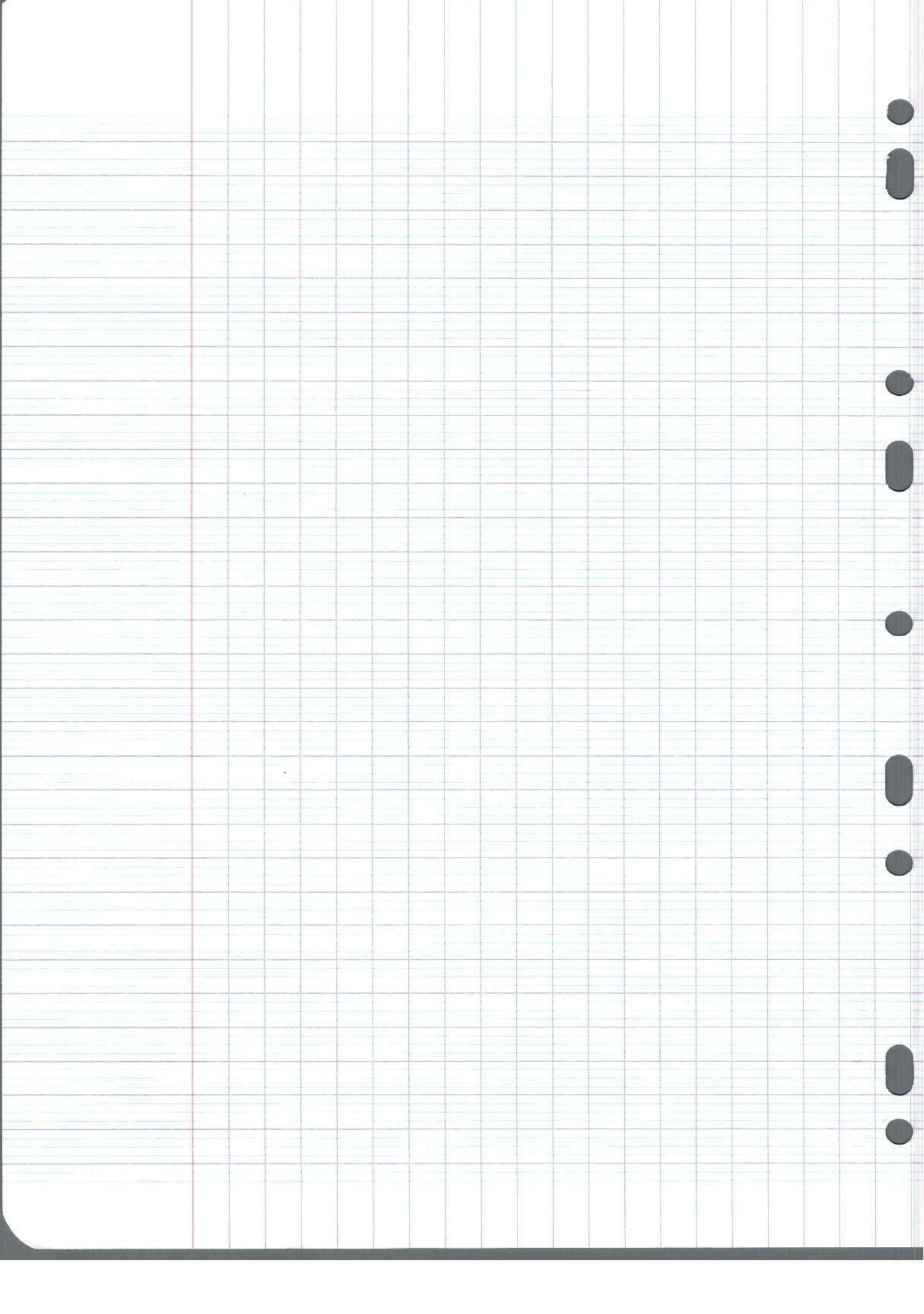
4)  ~~$3$~~   $\frac{3}{4}$   $1$

5)  $0$

6)  $f'(1) = -1$ ;  $f'(-2) = 0$ ;  $f(2) = 2$

7)  $0$

$\frac{3}{9}$



28/01/2022

11690

1)  $x^{-11}$  1

2)  $\det(\vec{u}, \vec{v}) = 7$  1

3)  $u_3 = -8$  1

4)  $P_A(B) = \frac{3}{4}$  1

5)  $\sin(242\pi) = 1$  0

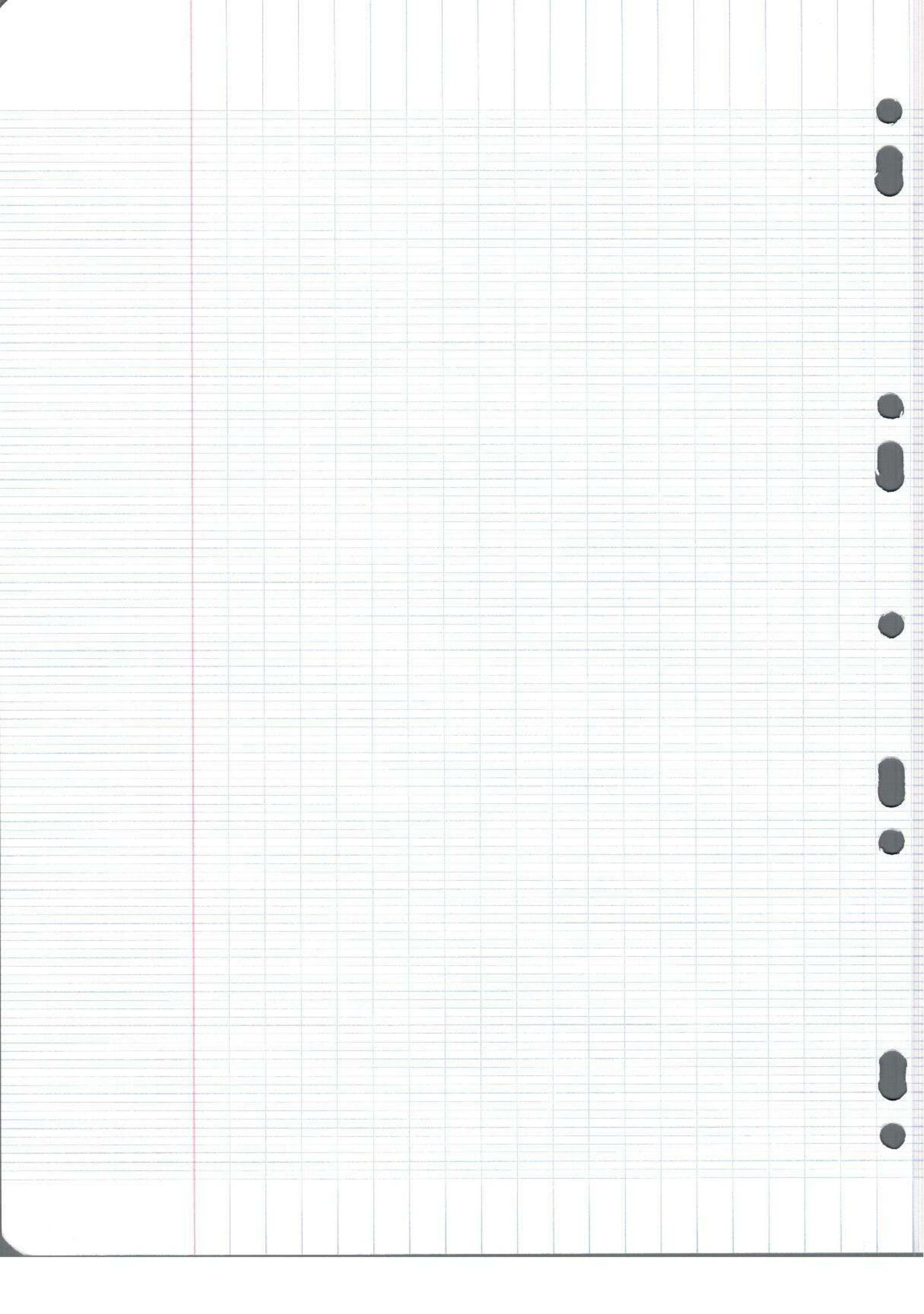
$\frac{8}{9}$

6)  $f'(1) = 2^4$

$f'(2) = -2$  1

$f(2)$  est ~~positif~~  $> 0$  1

7) 1 1





Vendredi 23 janvier 2021

11710

1)  $e^{-17} = 1$

2)  $\det(\vec{u}; \vec{v}) = 7 = 1$

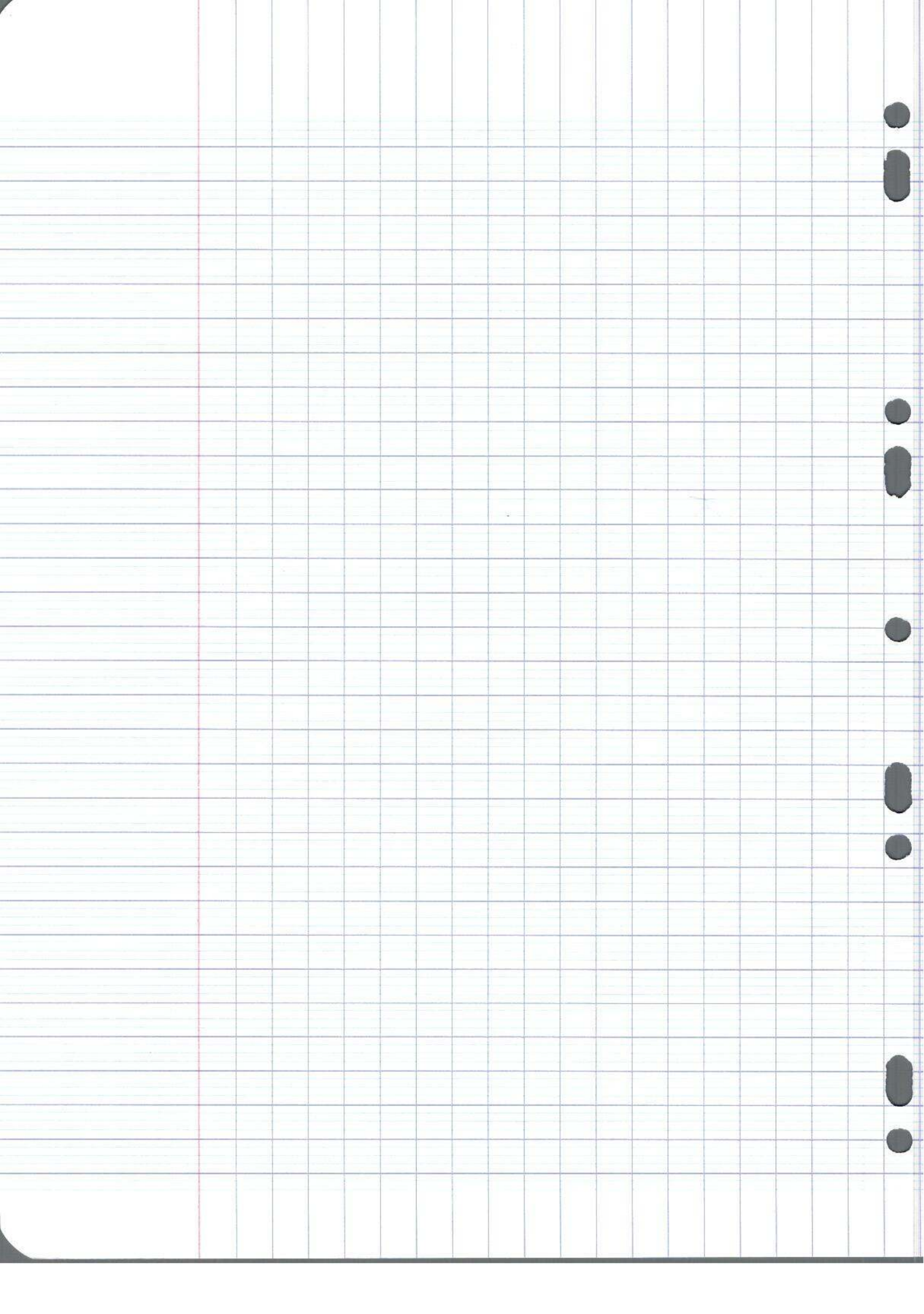
3)  $u_3 = -8 = 1$

4)  $\mathbb{P}_{\vec{A}}(\vec{B}) = \frac{3}{4} = 1$

~~5)~~  $\sin(242\pi) = 0$

6)  $f'(1) = 2 = 1$     $f'(-2) = 0$     $f(2) = 0$

$\frac{5}{9}$



28/01/22

11730

1)  $z = x^{-11}$  1

2)  $\det(\vec{u}; \vec{v}) = 7$  1

3)  $\mu_3 = 5$  0

4)  $\frac{3}{4}$  1

$\frac{4}{9}$

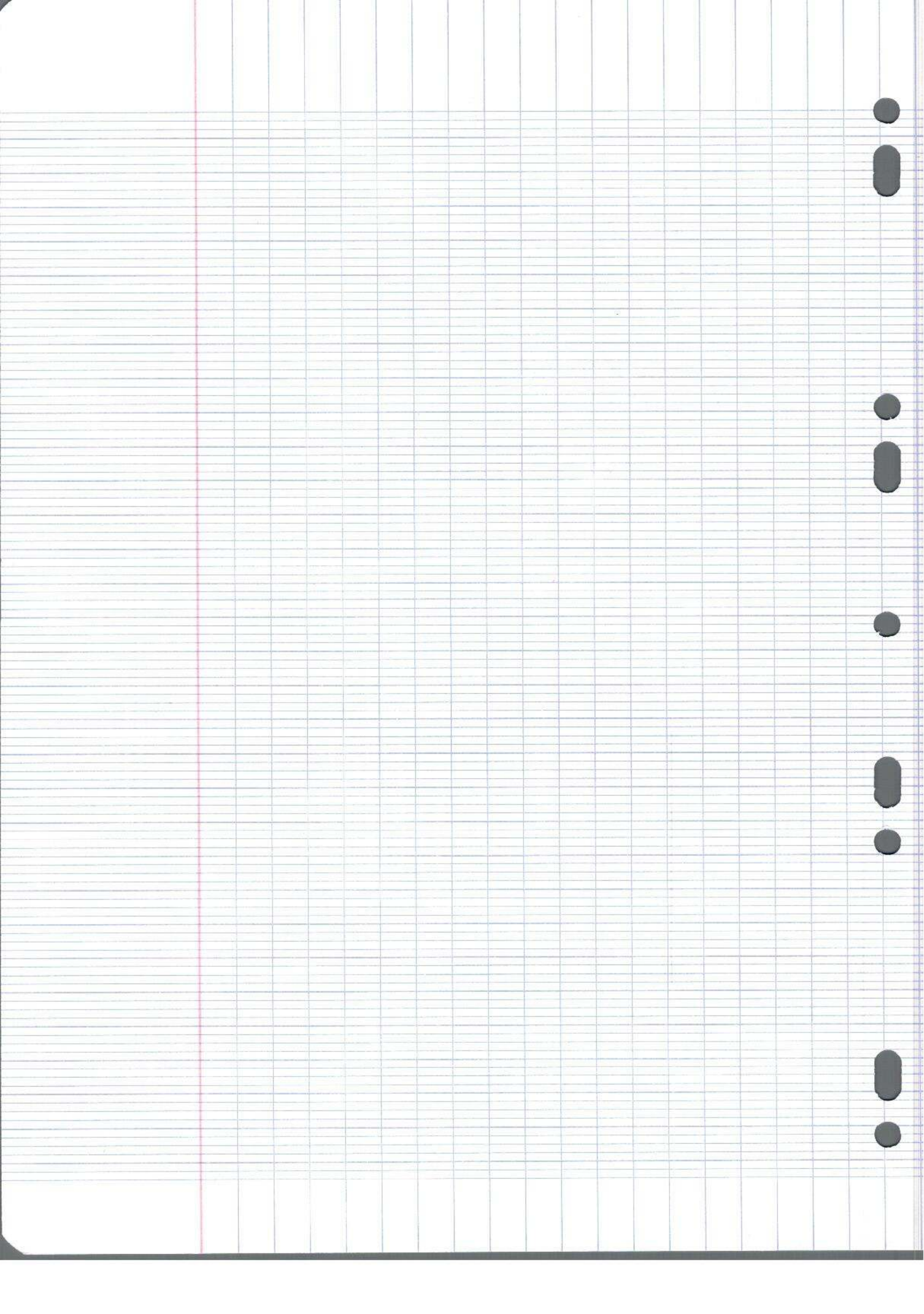
5)  $\sin(242\pi) = 1$  0

6)  $f'(1) = 2$  1

$f'(2) = -2$  1

$f(2)$  donc il est constant 0

7) 0



11770

1)  $x^{-1} = 0$

2)  $\text{de } \vec{v} = \dots \text{ ?} \dots \text{ ?} \text{ de } \vec{v} = \dots -6$

3)  $v_3 = -8$  1

4)  $\frac{3}{4}$  1

5)

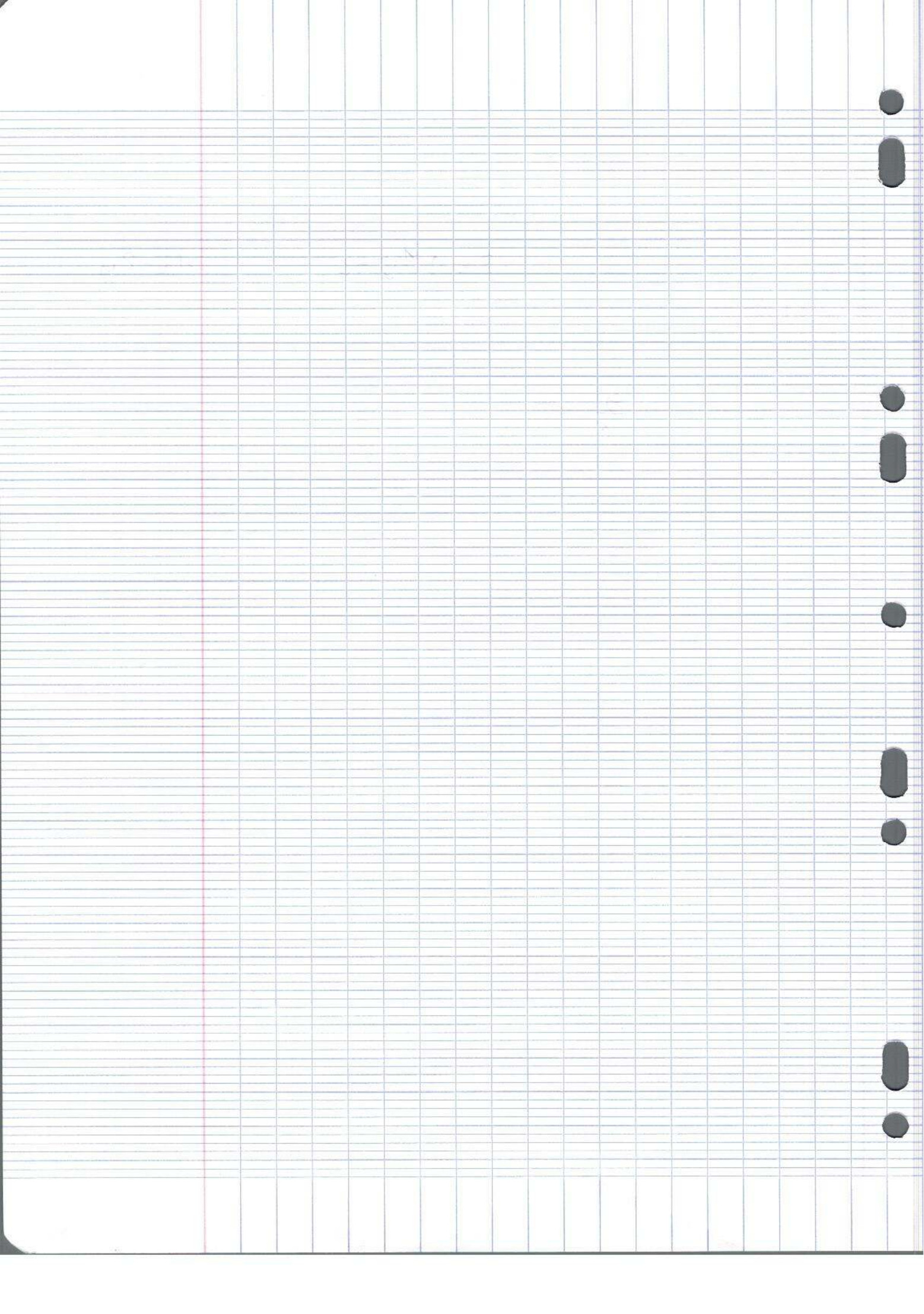
6)  $f'(1) = 2$  1

$f'(-2) = -2$  1

$f(2) = 3$  0

7)  $x_1 = 1$  1

$\frac{5}{9}$



problème  
résolu

11775

1) ~~sc~~ <sup>sc</sup> ~~sc~~ <sup>sc</sup> 0

2)  $\det(\vec{v}; \vec{v}^0) = 7$  1

3)  $v_3 = -8$  1

4)  $P_A(B) = \frac{6}{8} = \frac{3}{4}$  1

5)  $\sin(242\pi) = 0$  1

8  
9 / 6)  $f'(1) = 2$  1

$f'(-2) = -2$  1

$f(x)$  est ~~positif~~ <sup>> 0</sup> 1

7)  $x = 1$  est une racine 1

$$8 - 4x + 8 \quad \overset{19}{-1} \quad -13 \quad \overbrace{\quad}^{\pi}$$

$$2) \det(\vec{u}_i; \vec{v}) = \begin{vmatrix} 2 & -1 \\ 1 & 3 \end{vmatrix}$$

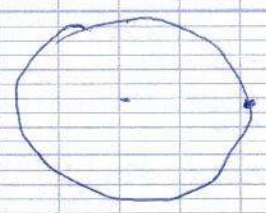
$$= 6 - (-1)$$

$$U_{\text{KR}} = \begin{aligned} U_0 &= -1 \\ U_1 &= -2 \\ U_2 &= -4 \\ U_3 &= -8 \end{aligned}$$

$$1000 \overline{) 1120}$$

4.

$$\frac{3}{4} \times \frac{3}{4} = \frac{6}{8}$$



$$\begin{array}{r} 1000 \overline{) 1120} \\ \underline{1100} \\ 20 \end{array}$$

x 120

119 x 1

2

0



11 785

Vendredi 28 janvier 2022

1.  $Z = x^{-11}$  1

2.  $\det(\vec{u}, \vec{v}) = 7$  1

3.  $u_3 = -8$  1

4.  $P_A(B) = \frac{3}{4}$  1

6.  $f'(1) = 2$  1

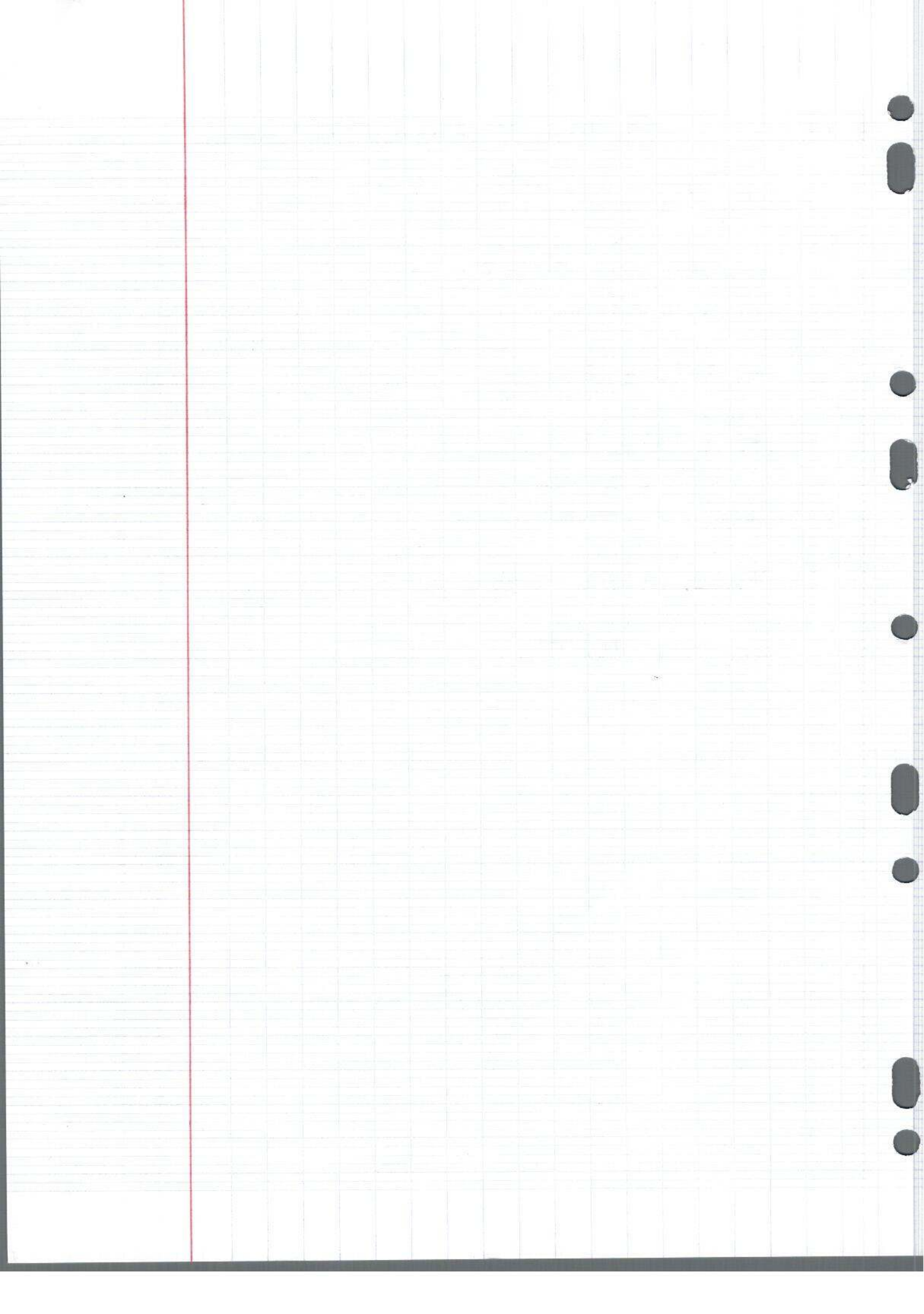
$f'(-2) = -2$  1

$f(2)$  est ~~positif~~  $> 0$  1

7. 1 est une racine 1

5.  $\sin(242\pi) = 0$  1

 $\frac{9}{9}$



$$1- Z = x^{-12} \quad 1$$

$$2- \det |\vec{u}; \vec{v}| = 7 \quad 1$$

$$3- u_3 = -8 \quad 1$$

$$4- \rho_{\vec{A}} |\vec{B}| = \frac{3}{4} \quad 1$$

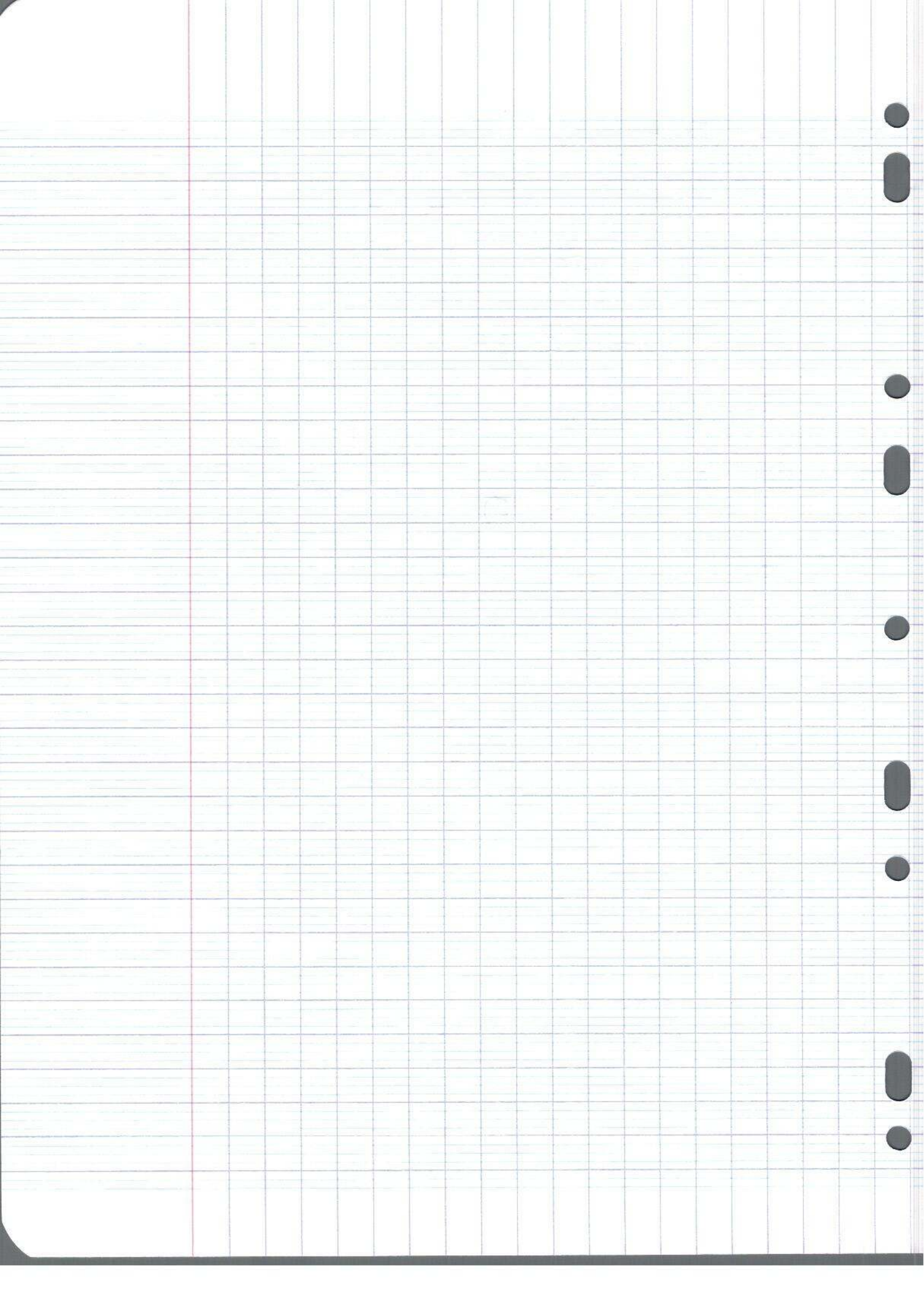
5-

$$6- f(1|1) = 2 \quad 1 \quad f(-2) = -2 \quad 1$$

$$f(2) = 0 \quad 0$$

7 0

$\frac{6}{9}$

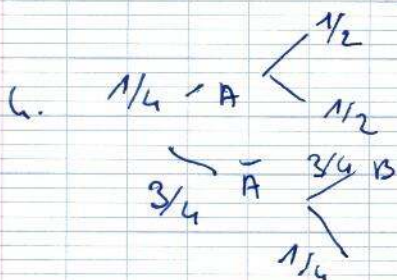


Test Math.

11820.  
28/01/2022

$$\frac{-4x-2}{12} \times \frac{-4}{12} = \frac{-8+4}{12} = \frac{-4}{12} = -\frac{1}{3}$$

$$\begin{pmatrix} 1 \\ 3 \end{pmatrix} \begin{pmatrix} 2 \\ 1 \end{pmatrix} \quad xy' = x'y \\ -1 \times 1 + 3 \times 2 \\ -1 + 6 = 5 \quad \circ$$



$$P_{\bar{A}}(B) = \frac{P(\bar{A} \cap B)}{P(\bar{A})}$$

$$P_{\bar{A}}(B) = \frac{3/4 \times 3/4}{3/4} = 3/4$$

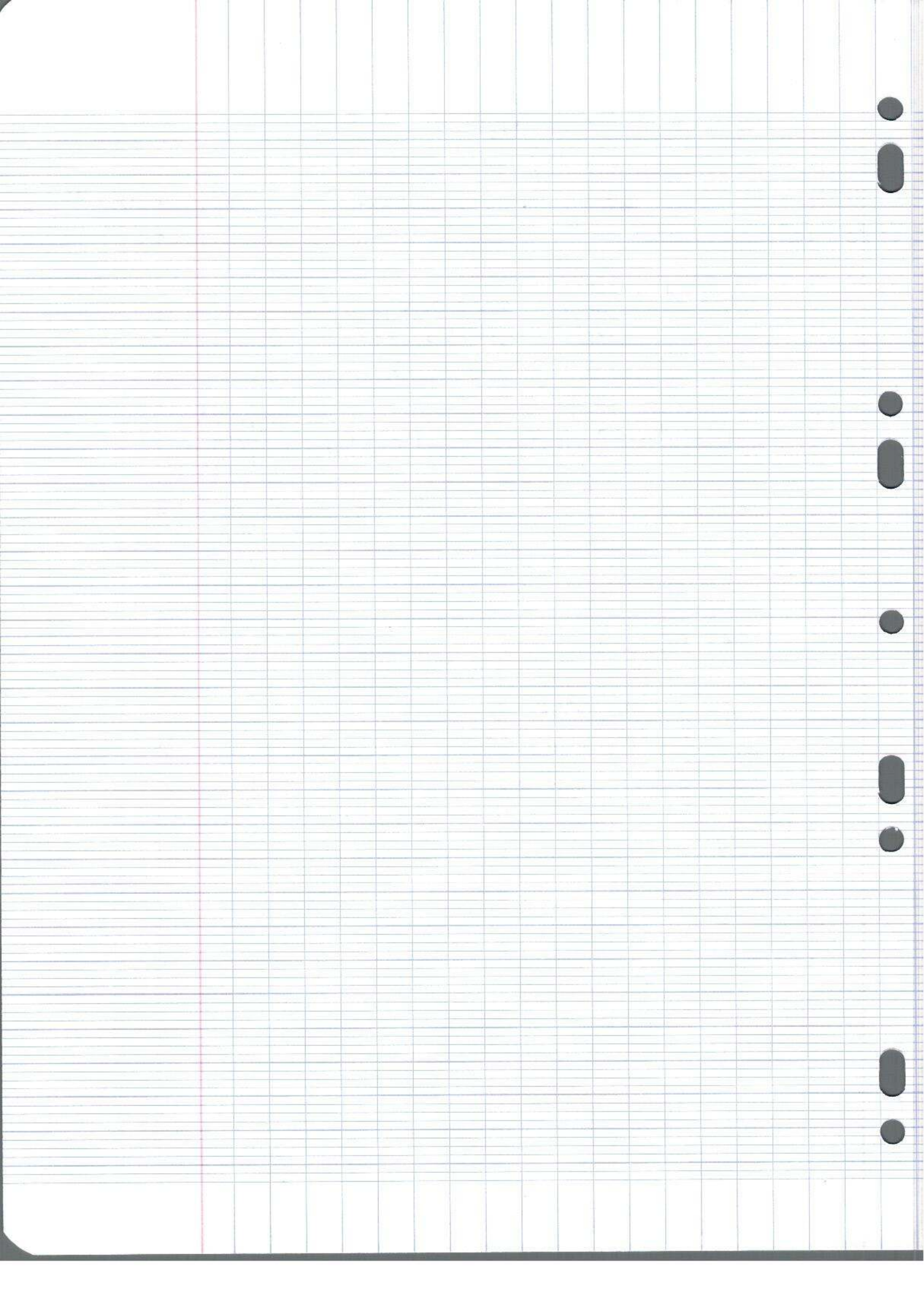
5.  $\sin(242\pi) = 0$

6.  $f'(1) = 1/2 \times 2 = 1$

$f'(-2) = 2/2 \times -2 = -2$

$f'(2) = \text{positive} > 0$

4.



$$1) z = \frac{(x-4)^{-2} \times x^{-7}}{x^{-12}} = x^{-11} \quad 1$$

$$2) \det(\vec{u}; \vec{v}) = 7 \quad 1$$

$$3) \mu_3 = -8 \quad 1$$

$$4) \frac{3}{4} \quad 1$$

$$5) 0 \quad \underline{1}$$

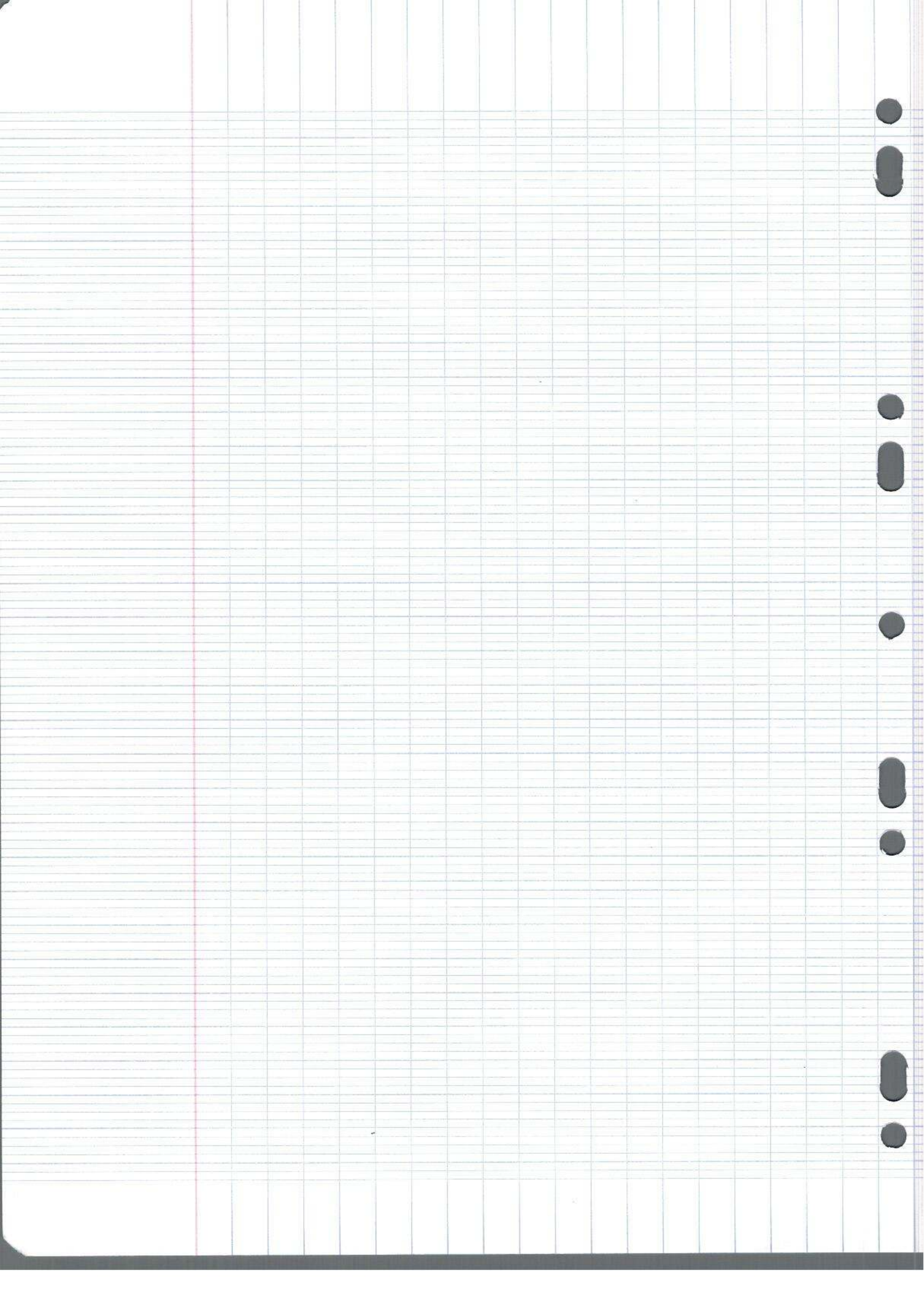
$$6) f'(1) = 2 \quad 1$$

$$f'(-2) = -2 \quad 1$$

$$f(2) \quad \text{est un point} > 0 \quad 1$$

$$7) 1 \text{ est une racine. } \underline{1}$$

$$\frac{9}{9}$$





1)  $x^{-11}$  1

2) 7 1

3)  $u_3 = 5$  1

4)  $\frac{3}{4}$  1

6)  $f'(1) = 2$  1,  $f'(2) = -2$  1, signe de  $f(2) = \frac{> 0}{\text{positif}}$  1

7/9

7)

5)

