



Agenția Națională pentru
Curriculum și Evaluare

MATEMATICA (ÎN LIMBA ENGLEZĂ)
EXAMEN NAȚIONAL DE ABSOLVIRE A GIMNAZIULUI
SESIUNEA SUPLIMENTARĂ / REPETATĂ

08 iulie 2026
Timp alocat – 120 de minute

Rechizite și materiale permise: *pix cu cerneală albastră, creion, riglă, radieră.*

Instrucțiuni pentru candidat:

- Citește cu atenție fiecare item și efectuează operațiile solicitate.
 - Lucrează independent.
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Îți dorim mult succes!

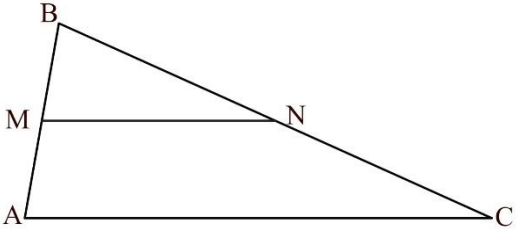
Annex

$$x^m \cdot x^n = x^{m+n},$$

$$a^2 - b^2 = (a - b)(a + b)$$

$$\mathcal{A}_{lat.surf.of\ the\ cone} = \pi R G$$

$$\mathcal{V}_{cone} = \frac{1}{3} \pi R^2 H$$

Nr.	Item
1.	Let $a = -3 + 6$ and $b = (-2) \cdot 9$. Fill in the boxes with integers, which represent the values of the expressions: $a = \boxed{}, \quad b = \boxed{}, \quad b : a = \boxed{}.$ 1 L 0 1 2 3
2.	On the picture, ABC is a triangle in which $m(\angle BAC) = 80^\circ$ and $AC = 8$ cm. It is known that M and N are the midpoints of sides AB and BC, respectively. Fill in the boxes with: the length of line segment MN and the degree measure of the angle BMN. a) $MN = \boxed{};$ b) $m(\angle BMN) = \boxed{}.$  2 L 0 1 2
3.	Solve in the set $\mathbb{R}$ the equation $2x^2 + x - 10 = 0$. <i>Solution:</i> Answer: $S = \underline{\hspace{10cm}}.$ 3 L 0 1 2 3

4.

In 2024, the Republic of Moldova exported IT services worth 820 million euro. In 2025, the value of IT services exports increased by 20%. Determine the value of IT services exports in 2025.

Solution:

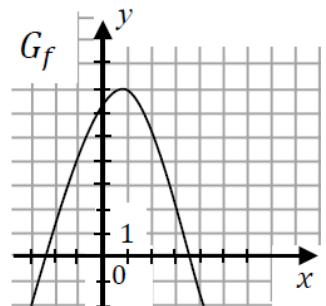
Answer:_____.

4|L|0|1|2|3|4|5

5.

On the picture, the graph of the function $f: \mathbb{R} \rightarrow \mathbb{R}$, $f(x) = ax^2 + bx + c$, $a \neq 0$, is represented. Fill in the box with one of the symbols „>” or „<”, so that the sentence becomes true.

$$f(5) \boxed{} 0.$$



5|L|0|2

6.

Determine the number of integer negative solutions of the inequality

$$(x - 6)(x + 1) < x^2 - 4x.$$

Solution:

Answer: _____.

6|L|0|1|2|3|4

7.

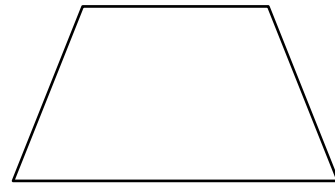
Calculate the value of the expression:

$$\sqrt{2\frac{1}{4} + 2^{-7} \cdot 2^5} - 1,75.$$

*Solution:**Answer:*_____.7|L|0|1|2
|3|4|5|6

8.

An isosceles trapezoid has bases of 4 cm and 16 cm. Determine the length of the height of the trapezoid, if it is known that the perimeter of the trapezoid is equal to 40 cm.

Solution:*Answer:*_____.8|L|0|1|2
|3|4|5

11.	Consider the expression $E(x) = \left(\frac{2x}{x-2} - \frac{3x-9}{x^2-4}\right) : \frac{2x^2+x+9}{x^2+2x}$. Determine the values of $x \in \mathbb{R} \setminus \{-2; 0; 2\}$, such that $E(x) = 3$. <i>Solution:</i> <i>Answer:</i>_____.	11 L 0 1 2 3 4 5 6
12.	Consider the function $f: \mathbb{R} \rightarrow \mathbb{R}, f(x) = mx - 3m - 5, m \neq 0$. The graph of the function f intersects the Ox-axis at the point with abscissa $x = 2$. Establish the monotonicity of the function f. <i>Solution:</i> <i>Answer:</i>_____.	12 L 0 1 2 3 4