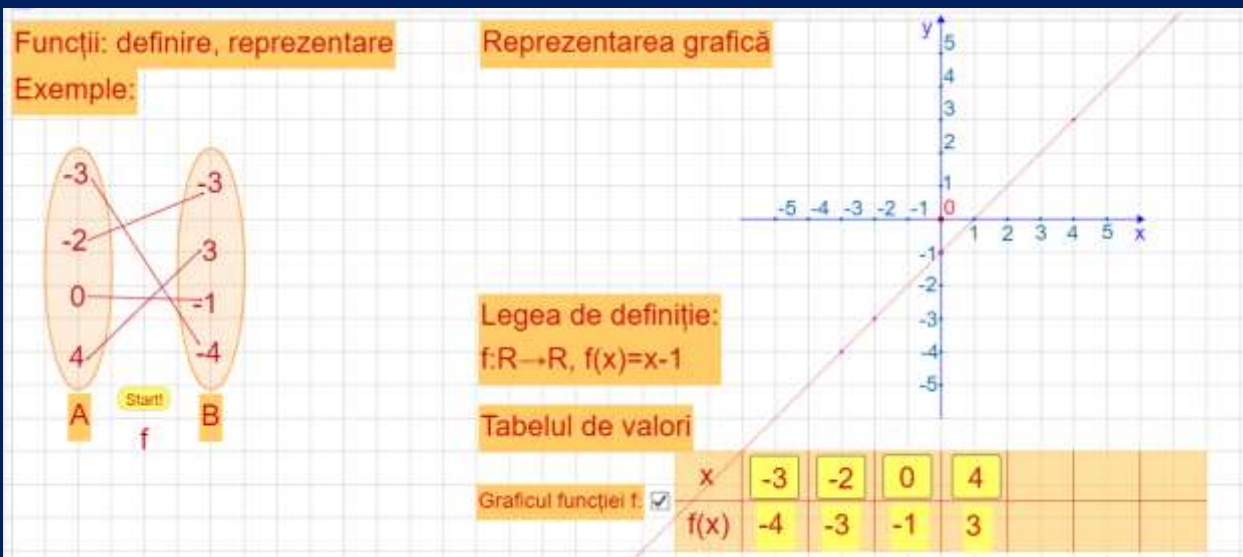
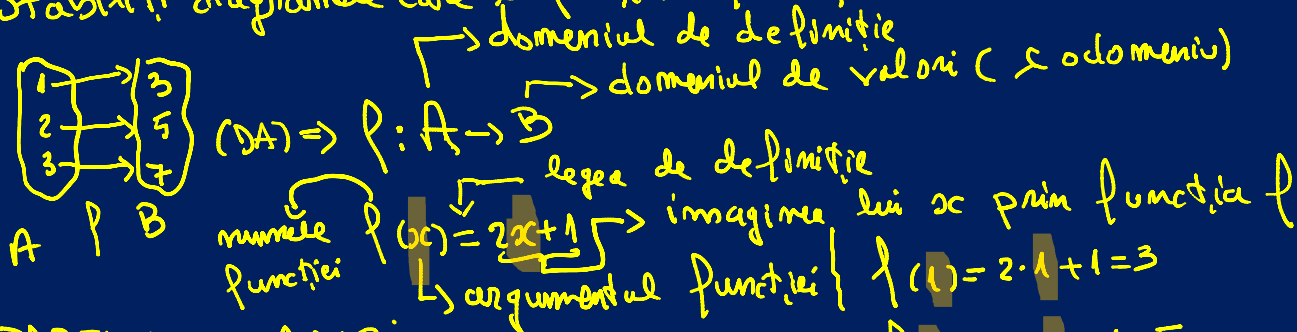


Def: considerăm două mulțimi nevide A și B. Spunem că am definit o funcție de la A la B dacă ORICĂRUI element din A îi corespunde un UNIC element în mulțimea B.



Stabiliti diagramale care reprezintă funcții:



TABELUL DE VALORI

x	1	2	3
f(x)	3	5	7

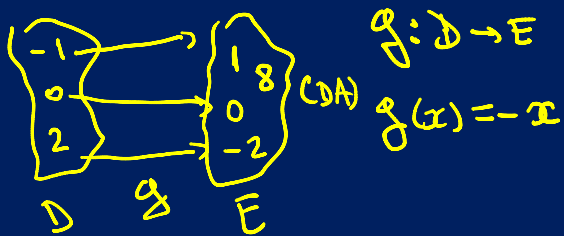
Graficul funcției \Rightarrow

$$G_f = \{(x, f(x)) \mid x \in A\}$$

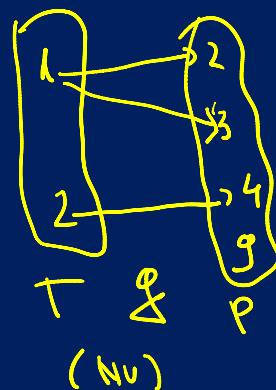
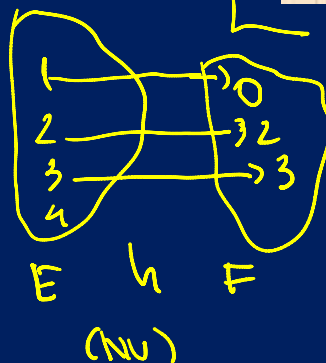
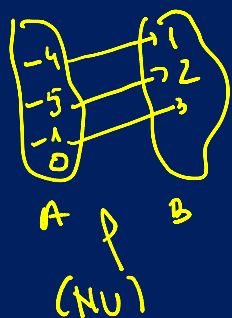
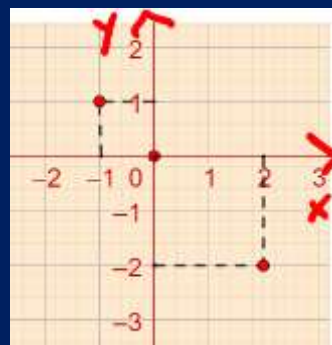
$$G_f = \{(1, 3), (2, 5), (3, 7)\}$$

interpretarea geometrică \rightarrow
 a graficului funcției





$$x \begin{array}{c|c|c|c} -1 & 0 & 2 \\ \hline g(x) & 1 & 0 & -2 \end{array}$$



Nr. 0 nu are imagine

Nr. 4 nu are imagine

1 are 2 imagini

Reprezentarea grafică a funcției de gradul I

Se consideră funcția $f: \mathbb{R} \rightarrow \mathbb{R}$, $f(x) = 2x - 6$

Introduceți valorile dorite pentru x_1 și x_2 :

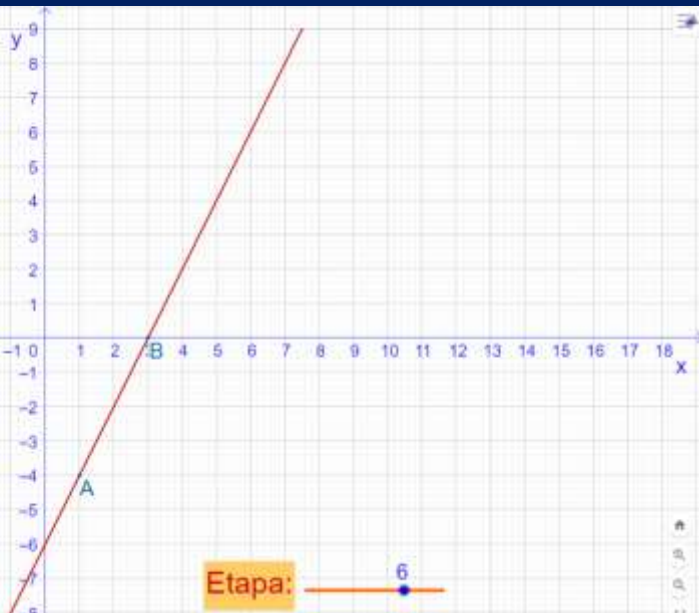
$x_1 = 1$ $f(1) = 2 \cdot (1) - 6 = -4$

$y_1 = -4$ $A(1, -4) \in G_f$

$x_2 = 3$ $f(3) = 2 \cdot (3) - 6 = 0$

$y_2 = 0$ $B(3, 0) \in G_f$

Graficul funcției: Start!



Se consideră $f: \mathbb{N} \rightarrow \mathbb{R}$, $f(x) = ax + b$, $a \in \mathbb{R}$, $b \in \mathbb{R}$.

$f(x) = 3 \cdot x + 2$

0

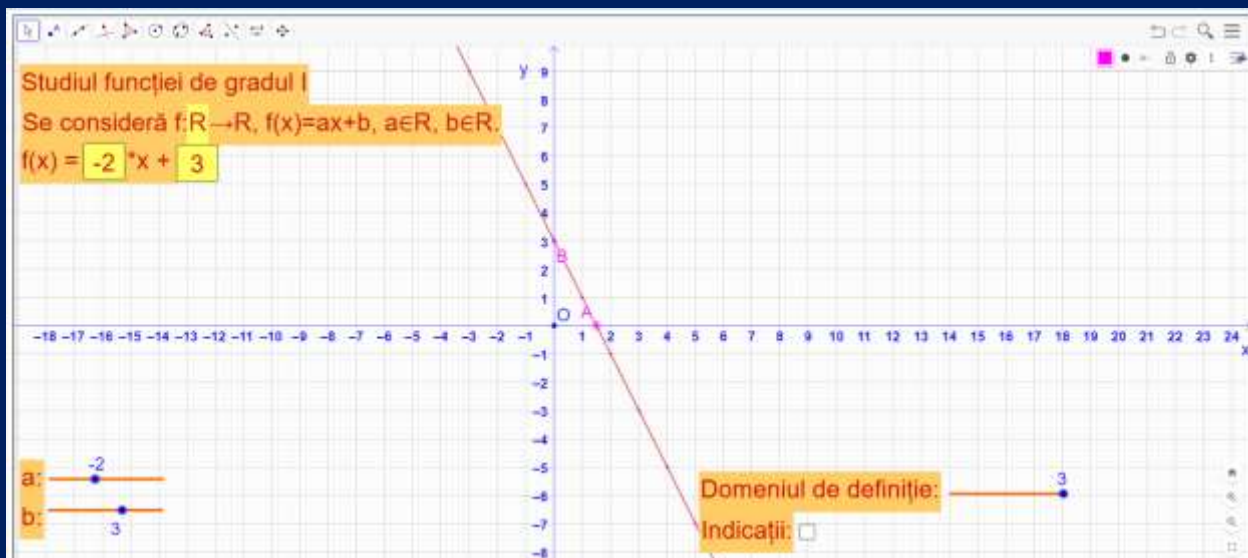
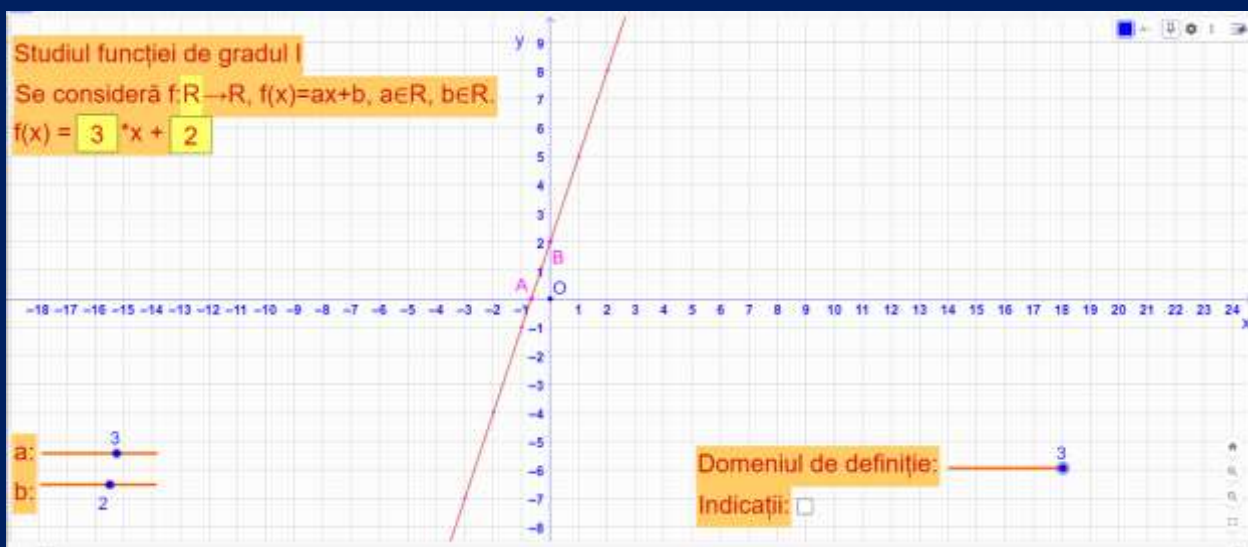
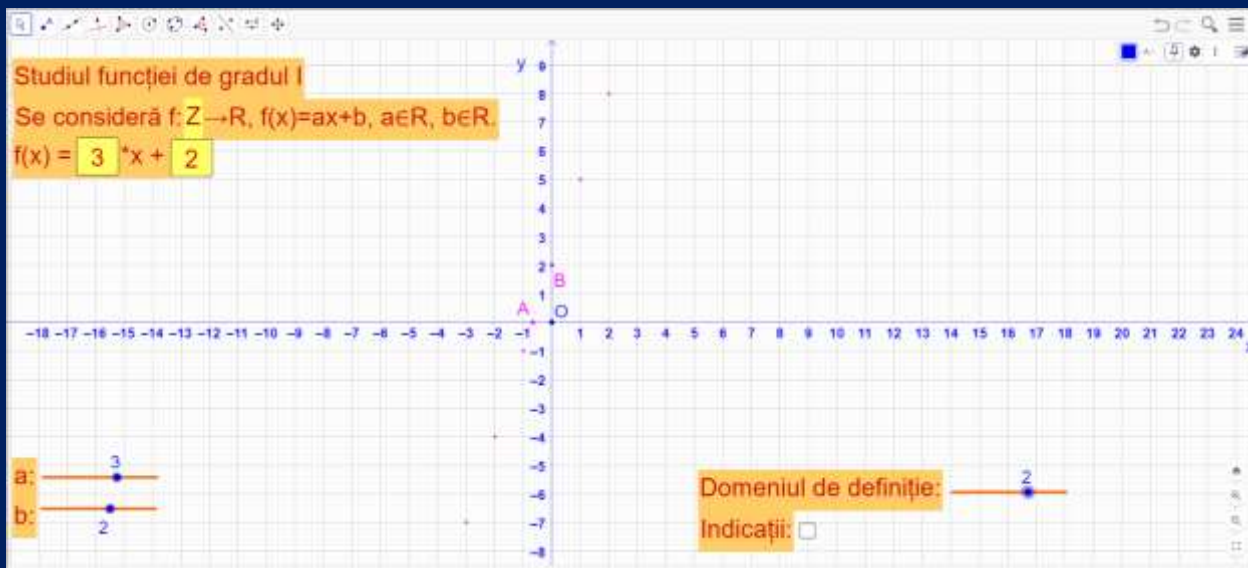
x	0	1	2	3	4	5	6
f(x)	2	5	8	11	14	17	20

Studiul funcției de gradul I

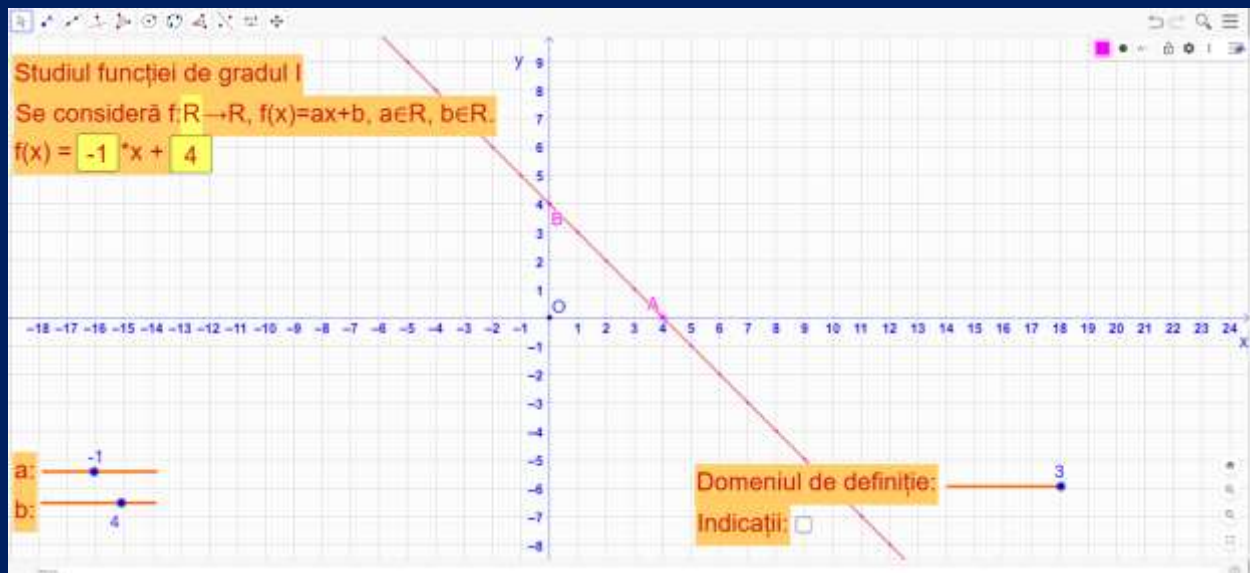
Se consideră $f: \mathbb{N} \rightarrow \mathbb{R}$, $f(x) = ax + b$, $a \in \mathbb{R}$, $b \in \mathbb{R}$.

$f(x) = 3 \cdot x + 2$

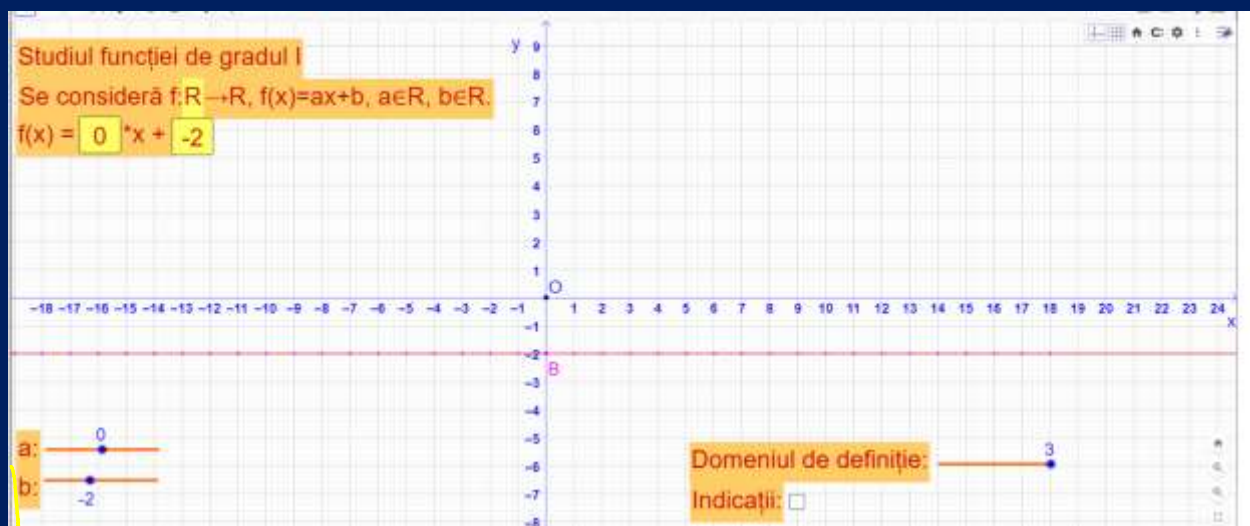




$$\begin{array}{r|rr} x & 0 & 1.5 \\ f(x) & 3 & 0 \end{array} \quad f(0) = -2 \cdot 0 + 3 = 3 \quad f(1.5) = -2 \cdot 1.5 + 3 = -3 + 3 = 0$$



$$\begin{array}{c|c|c|c|} x & 0 & 4 & \\ \hline f(x) & 4 & 0 & \end{array} \quad \begin{array}{l} f(0) = -1 \cdot 0 + 4 = 4 \\ f(4) = -1 \cdot 4 + 4 = 0 \end{array}$$



$$\left. \begin{array}{l} f: \mathbb{R} \rightarrow \mathbb{R} \\ f(x) = 0 \cdot x - 2 = 0 - 2 = -2 \end{array} \right\} \Rightarrow f(x) = -2, (\forall) x \in \mathbb{R}$$

$$\begin{array}{c|c|c|c|} x & 0 & 1 & 2 & \\ \hline f(x) & -2 & -2 & -2 & \end{array}$$

