

EXERCITII APROFUNDARE - DEPENDENȚA  
FUNCȚIONALĂ

11/51 cul.

$$A = \{x \in \mathbb{Z} / -3 \leq x < 4\}$$

$$B = \{x \in \mathbb{Z} / -4 < x \leq 4\}$$

$$\Rightarrow A = \{-3, -2, -1, 0, 1, 2, 3\}$$

$$B = \{-3, -2, -1, 0, 1, 2, 3, 4\}$$

$$x \rightarrow y, \quad y = x + 1$$

grafic = ?

$$x = -3 \Rightarrow y = -3 + 1 = -2$$

$$x = -2 \Rightarrow y = -2 + 1 = -1$$

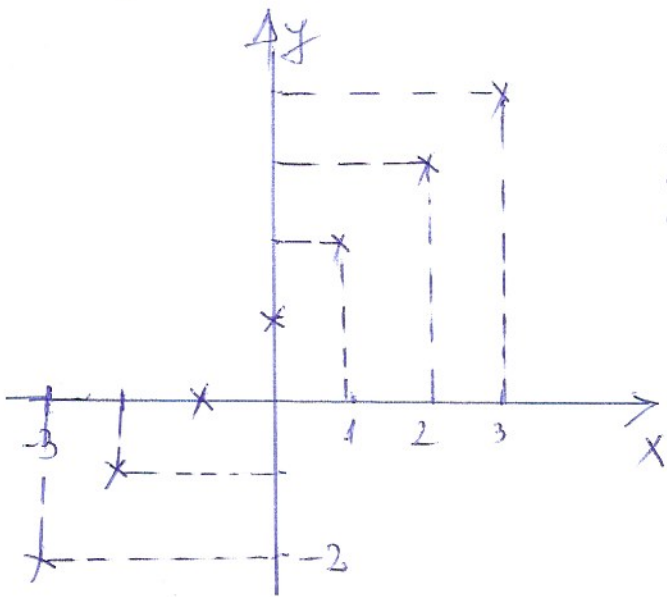
$$x = -1 \Rightarrow y = -1 + 1 = 0$$

$$x = 0 \Rightarrow y = 0 + 1 = 1$$

$$x = 1 \Rightarrow y = 1 + 1 = 2$$

$$x = 2 \Rightarrow y = 2 + 1 = 3$$

$$x = 3 \Rightarrow y = 3 + 1 = 4$$



13/51 cul

$$A = \{-2, -1, 0, 1, 2, 3\}$$

$$B = \{-3, -2, 0, 1, 2, 3\}$$

$$x \rightarrow y$$

$$y = \text{opusul lui } x = -x$$

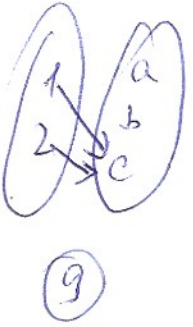
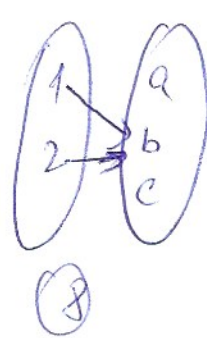
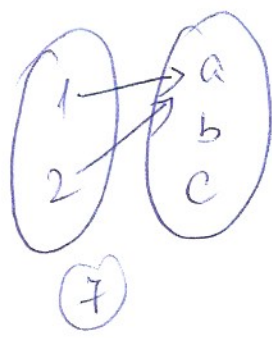
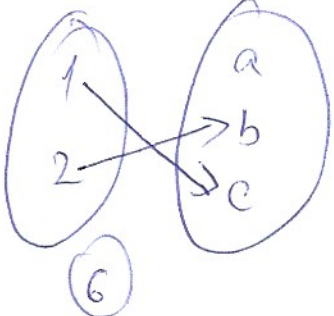
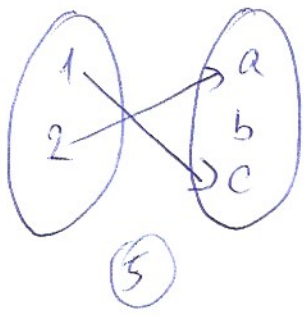
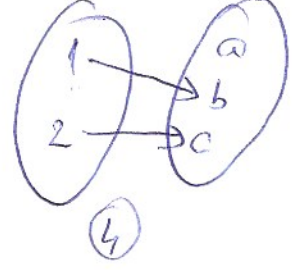
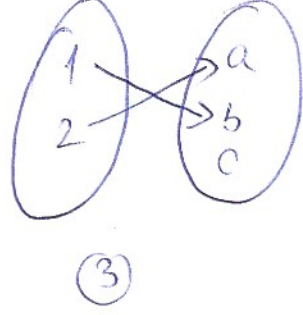
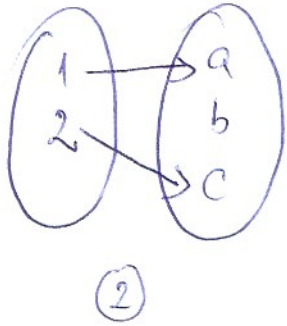
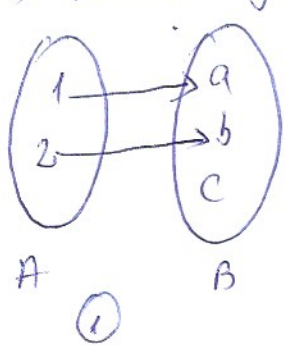
x	-2	-1	0	1	2	3
y	2	1	0	-1	-2	-3

18/51.  $\left. \begin{matrix} \text{card } A = n \\ \text{card } B = m \end{matrix} \right\} \Rightarrow \boxed{m^n} = \text{relatii de la } A \text{ la } B$

Ex:  $A = \{1, 2\} \Rightarrow \text{card } A = 2 (=n)$

$B = \{a, b, c\} \Rightarrow \text{card } B = 3 (=m)$

$\Rightarrow$  relatii functionale de la  $A$  la  $B$  sunt  $3^2 = 9$ .



$\Rightarrow$  relatii functionale de la  $B$  la  $A$  sunt  $2^3 = 8$ .

GASITI-LE!

6/50  $\pi \rightarrow \text{Acerc}$  ? prin diagrame  $A_{\text{cerc}} = \pi \cdot r^2$

$r_1 = 2m \Rightarrow A_1 = \pi \cdot 2^2 = 4\pi$

$r_2 = 3m \Rightarrow A_2 = \pi \cdot 3^2 = 9\pi$

$r_3 = 4m \Rightarrow A_3 = \pi \cdot 4^2 = 16\pi$

$r_4 = 5m \Rightarrow A_4 = \pi \cdot 5^2 = 25\pi$

$r_5 = 6m \Rightarrow A_5 = \pi \cdot 6^2 = 36\pi$

$r_6 = 8m \Rightarrow A_6 = \pi \cdot 8^2 = 64\pi$

not.  $A = \{2, 3, 4, 5, 6, 8\} \Rightarrow$

$\Rightarrow \text{card } A = 6$

$B = \{4\pi, 9\pi, 16\pi, 25\pi, 36\pi, 64\pi\} \Rightarrow \text{card } B = 6$

$\Rightarrow$  exista  $6^6$  - relatii funct. de la  $A$  la  $B$ .

TEMA: cul. pag 51 / ex: 12, 14, 15, 16, 17.