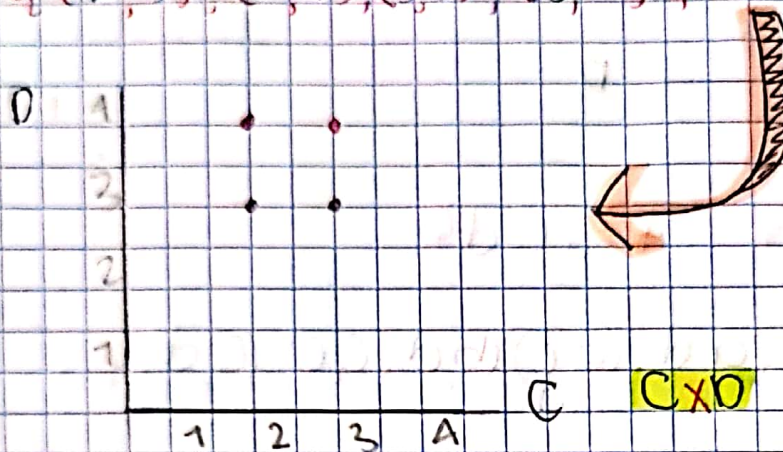


Semana 11 Bloque No. 2

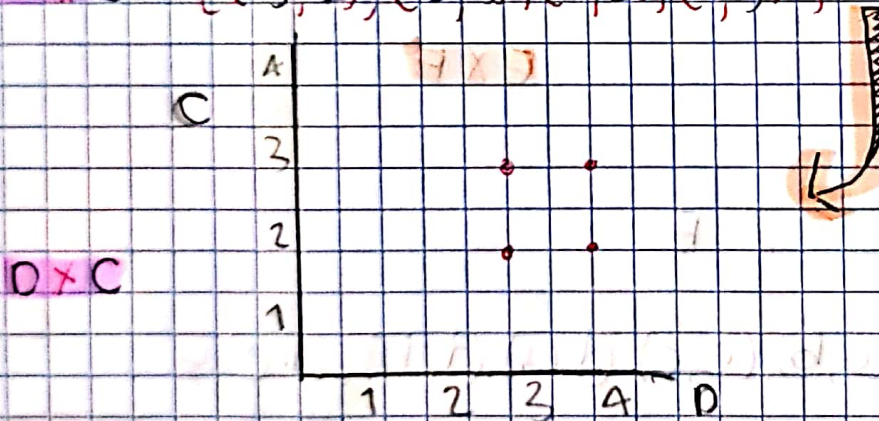
Represente gráficamente el producto cartesiano de los conjuntos siguientes.

1. $C = \{2, 3\}$ $D = \{3, 4\}$

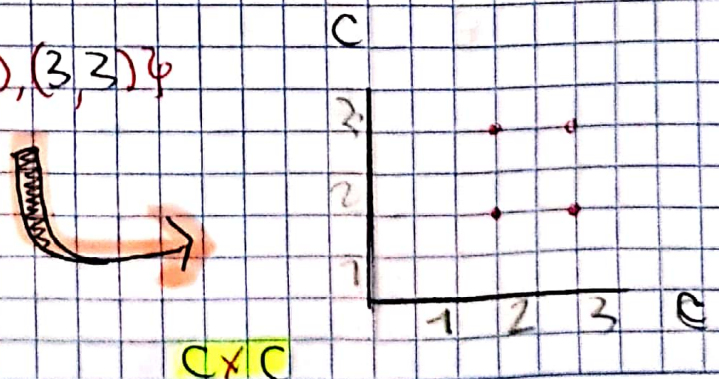
$C \times D = \{(2, 3), (2, 4), (3, 3), (3, 4)\}$



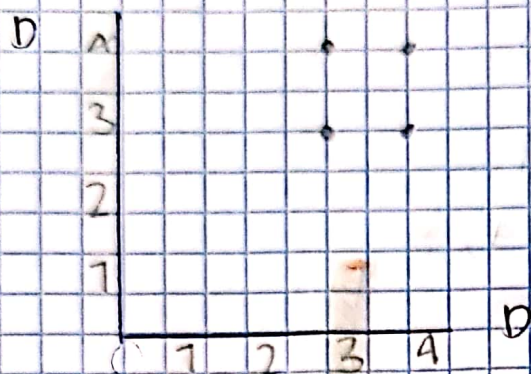
$D \times C = \{(3, 2), (3, 3), (4, 2), (4, 3)\}$



$C \times C = \{(2, 2), (2, 3), (3, 2), (3, 3)\}$



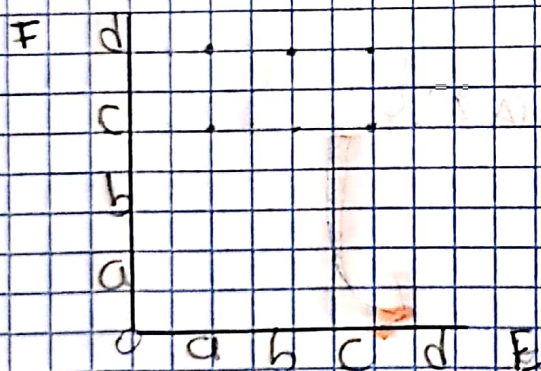
$$D \times D = \{(3,3), (3,4), (4,3), (4,4)\}$$



$D \times D$

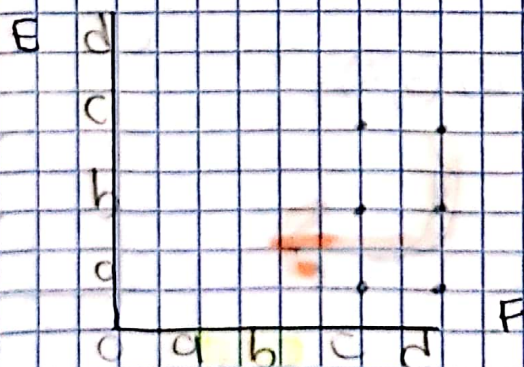
$$2. E = \{a, b, c\} \quad F = \{c, d\}$$

$$E \times F = \{(a,c), (a,d), (b,c), (b,d), (c,c), (c,d)\}$$



$E \times F$

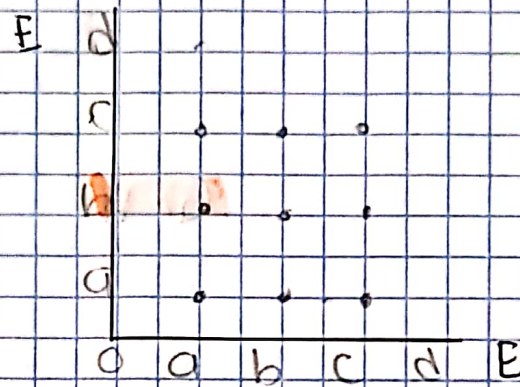
$$F \times E = \{(c,a), (c,b), (c,c), (d,a), (d,b), (d,c)\}$$



$F \times E$

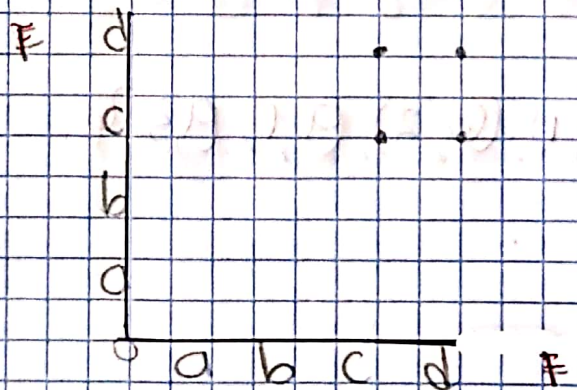
abcd

$$E \times E = \{(a, a), (a, b), (a, c), (b, a), (b, b), (b, c), (c, a), (c, c)\}$$



$E \times E$

$$F \times F = \{(c, c), (c, d), (d, c), (d, d)\}$$

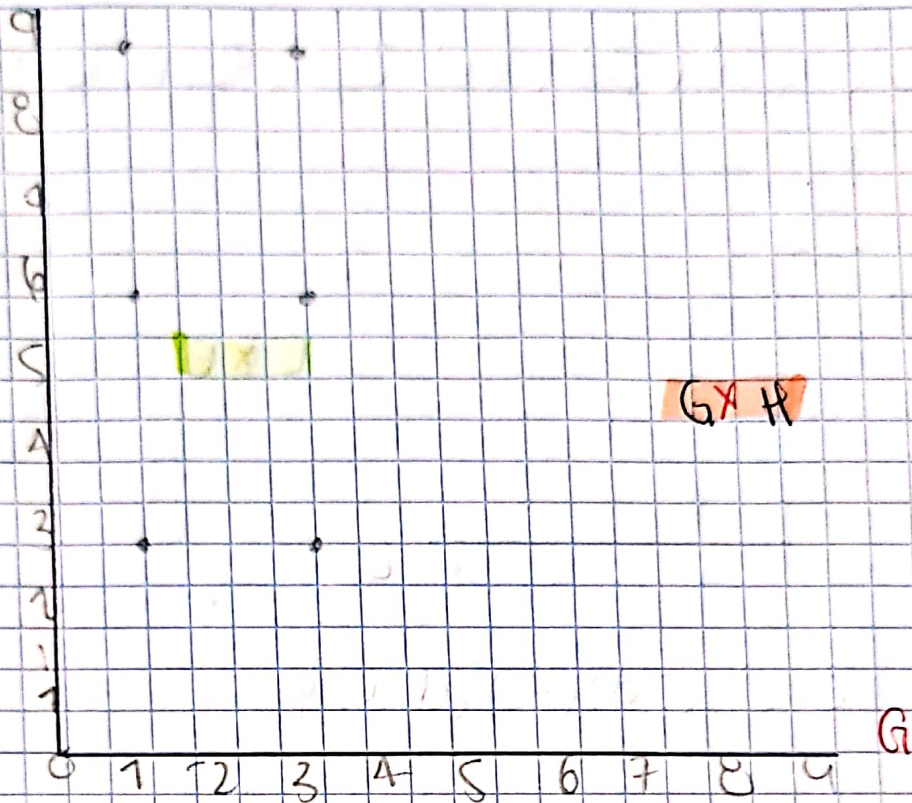


$F \times F$

$$3. \quad G = \{1, 3\} \quad H = \{3, 6, 9\}$$

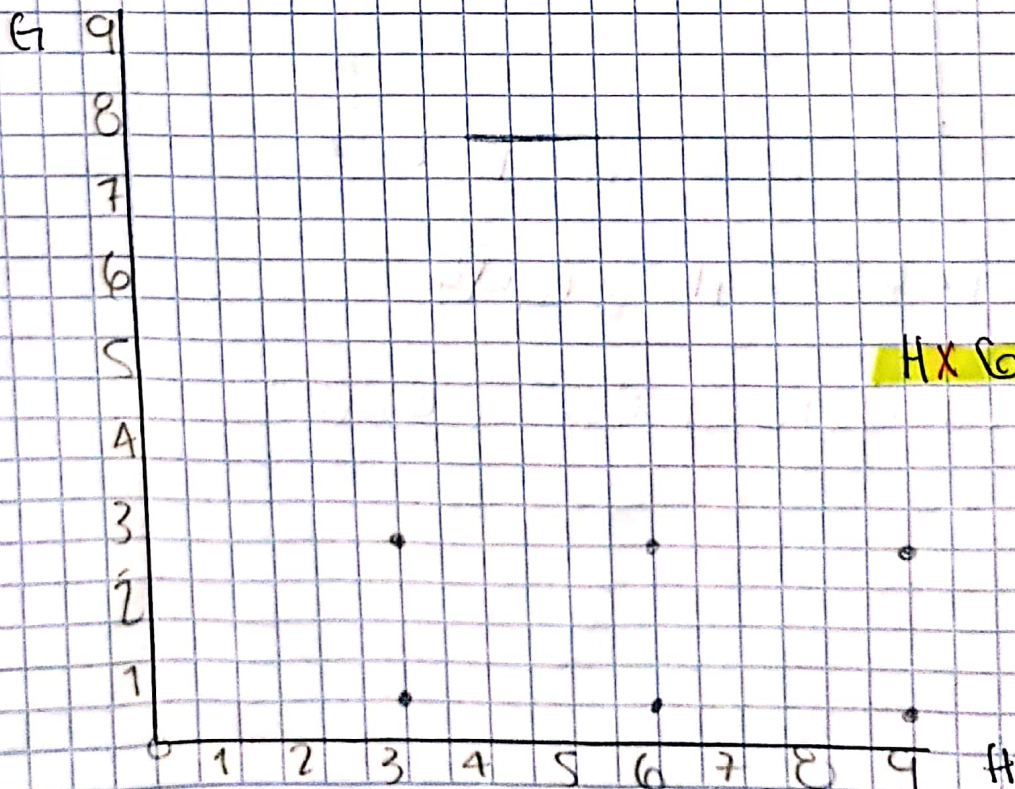
$$G \times H = \{(1, 3), (1, 6), (1, 9), (3, 3), (3, 6), (3, 9)\}$$

H

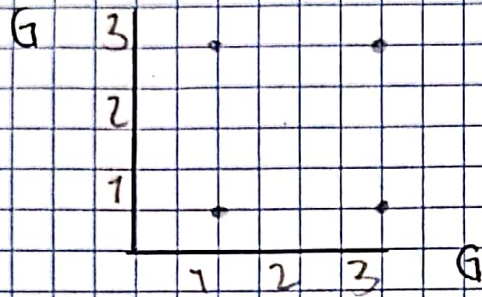
 $G \times H$

G

$$H \times G = \{(3,1), (3,2), (6,1), (6,3), (9,1), (9,3)\}$$

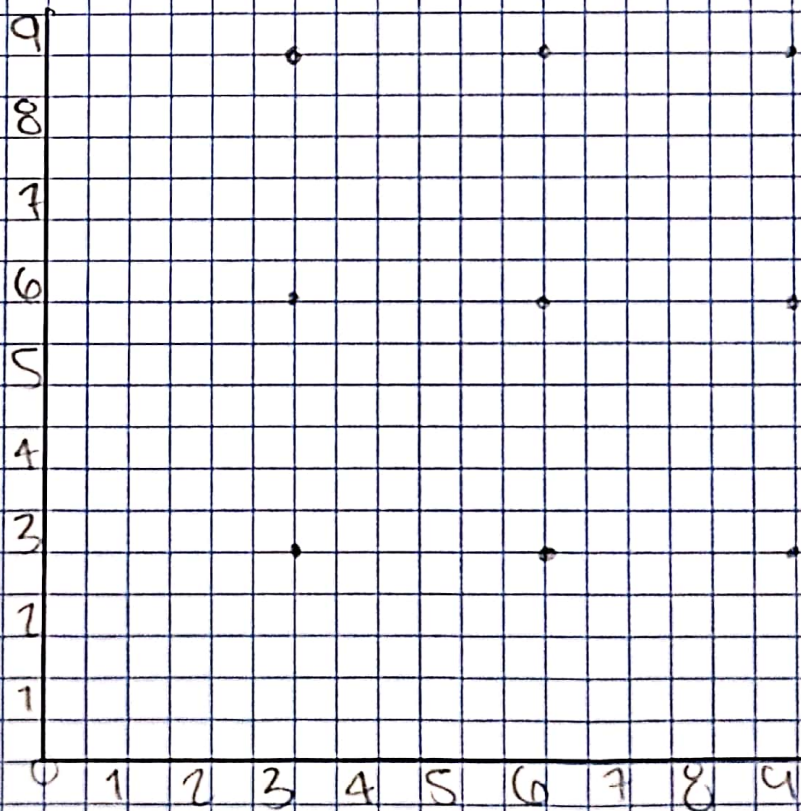
 $H \times G$

$$G \times G = \{(1,1), (1,3), (3,1), (3,3)\}$$



$G \times G$

$$H \times H = \{(3,3), (3,6), (3,9), (6,3), (6,6), (6,9), (9,3), (9,6), (9,9)\}$$



$H \times H$