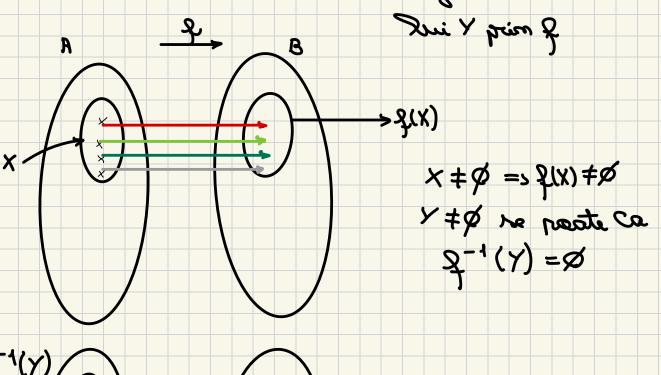
$A \supset X$ 

$$(B)$$
 f mirq X in Lanigami  $\{X \ni \# \mid (\#) \notin \mathcal{F} \equiv (X) \notin \mathcal{F}$ 

find serrigamie (f)mt = (A)f A=X

A > ( tata vous semigami)



Z:A→B Zunczie

Tie 
$$\eta \in \mathfrak{P}(X_{\lambda}) = 1$$
 (I)  $\mathfrak{Z} \in X_{1}$  (I)  $\mathfrak{Z} = \mathfrak{P}(\mathfrak{Z})$ 

$$(X_{\lambda} \subset X_{2} = 1) \mathfrak{Z} \in X_{2} = 1$$

$$= 1 \mathfrak{Z} = \mathfrak{P}(\mathfrak{Z}) \in \mathfrak{P}(X_{2})$$

$$\frac{1}{3}(x_1) \subset \frac{1}{3}(x_2) \stackrel{?}{=} x_1 \subset x_2$$

$$\frac{1}{3}(x_1) = \frac{1}{3}x_1^2$$

$$\frac{1}{3}(x_1) = \frac$$

$$C_{i}: \Delta := A \in \mathcal{D}(\lambda'(i) \times J) = \lambda(J) \times \in \lambda'(i) \times i = \mathcal{D}(x)$$

$$A = J(x) \in J(x) \quad A = J(x) \in J(x^{2}) \quad J$$

$$A = J(x) \in J(x) \quad A = J(x) \in J(x^{2}) \quad J$$

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$$A = J(x) \in J(x) \quad A = J(x) \in J(x^{2}) \quad J$$

$$(3) \cancel{x} \in X_1 \cup X_2 \subset x_1 = f(\cancel{x})$$

$$(3) \cancel{x} \in X_1 \cup X_2 \subset x_1 = f(\cancel{x})$$

$$(4) \cancel{x} \in X_1 \cup X_2 \subset x_1 = f(\cancel{x})$$

$$(5) \cancel{x} \in X_1 \cup X_2 \subset x_1 = f(\cancel{x})$$

$$(6) \cancel{x} \in X_1 \cup X_2 \subset x_1 = f(\cancel{x})$$

$$(7) \cancel{x} \in X_1 \cup X_2 \subset x_1 = f(\cancel{x})$$

$$(8) \cancel{x} \in X_1 \cup X_2 \subset x_1 = f(\cancel{x})$$

xx = xx 0 xx => 3(xx) = 3(xx 0 xx) => 3(xx 0 xx) => 3(xx 0 xx) => 3(xx 0 xx)

(in)  $Y_1, Y_2 \subset B = \frac{1}{2} - \frac{1}{2} (Y_1 \cup Y_2) = \frac{1}{2} - \frac{1}{2} (Y_1) \cup \frac{1}{2} - \frac{1}{2} (Y_2)$ 

The  $x \in x^{-1}(x_1 \cup y_2) = x_2(x) \in y_1 \cup y_2 = x_2$   $= x_2(x) \in y_1 = x_2 \in x_2^{-1}(y_1)$   $= x_1 \in x_2 \in x_2^{-1}(y_2)$   $= x_2 \in x_2^{-1}(y_2)$   $= x_2 \in x_2^{-1}(y_2)$   $= x_2 \in x_2^{-1}(y_2)$   $= x_2 \in x_2^{-1}(y_2)$ 

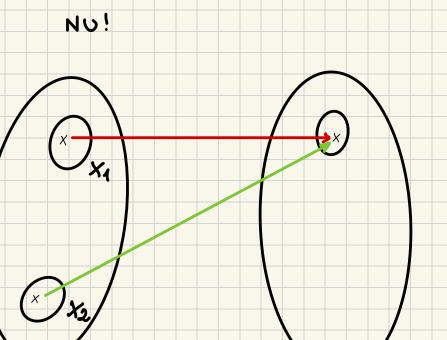
 $Y_1 \subset Y_1 \cup Y_2 \Rightarrow g^{-1}(Y_1) \subset g^{-1}(Y_1 \cup Y_2) \subset g^{-1}(Y_1 \cup$ 

=1 2-1 (/2) -2-1 (/2) -2-1 (/2 0/2)

(1)  $X_1, X_2 \subset H = \lambda \delta(x_1 \cup x_2) \subset \delta(x_1) \cup \delta(x_2)$ 

 $X^{1}UX^{5} \subset X^{5} \Rightarrow Z(X^{1}UX^{5}) \subset Z(X^{7})$   $X^{1}UX^{5} \subset X^{1} \Rightarrow Z(X^{1}UX^{5}) \subset Z(X^{7})$ => 3(X1) X5) C 1 3(xx) U 3(Xx)

Este spolitate?



meno, anitagni stre f asab, as itatarro 3(x20x2)=3(x2)03(x5).

Ac か(xx)しか(xx) => なとも(xx) がなとも(xx)

 $= (3) \times (4) \times (4$ (3)  $x^3 \in X^5 \text{ or } \mathcal{A}_{=} f(x^3)$ 

 $=, A = \xi(\mathcal{X}^T) \in \mathcal{E}(X^T \cup X^T)$ 

(m) A12 CB => 2-1 (X1 ) 2 = 2-1 (X1) U 3-1 (X2)

 $||C||: Y_1 \cap Y_2 \subset Y_1 = y^{-1}(Y_1 \cap Y_2) \subset q^{-1}(Y_1)$   $Y_1 \cap Y_2 \subset Y_2 = y^{-1}(Y_1 \cap Y_2) \subset q^{-1}(Y_2)$ 

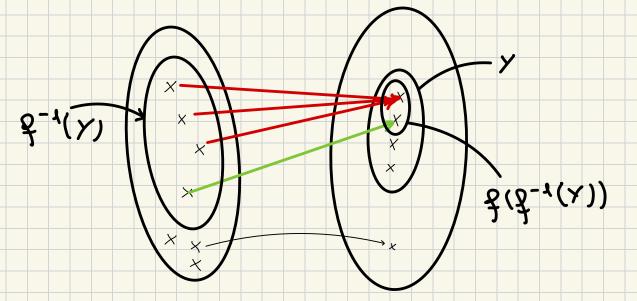
 $g^{-1}(x_1, x_2) = g^{-1}(x_1) n g^{-1}(x_2)$   $g^{-1}(x_1, x_2) = g^{-1}(x_1) n g^{-1}(x_2)$ 

=1 x e 2-1(xi) 3: x e 2-1(xi)

= meno, anitssjean stre f aaall

$$\exists x \in \mathcal{Z}^{-1}(Y) = x \in \mathcal{Z}(X) \quad \forall x \in \mathcal{Z}$$

$$\exists x \in \mathcal{Z}^{-1}(Y) = x \in \mathcal{Z}(X) \quad \forall x \in \mathcal{Z}$$

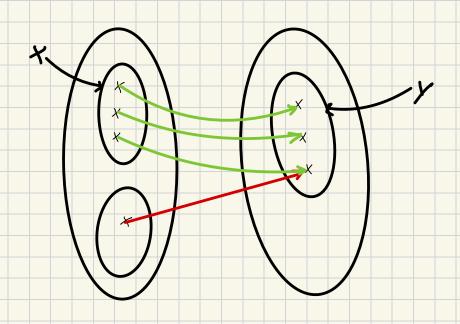


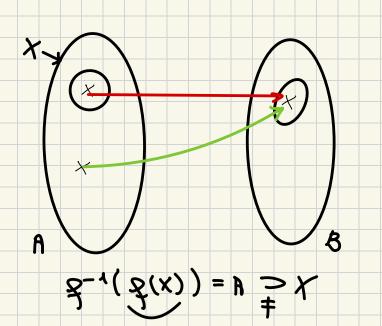
is & surjective.

(viii) 
$$X \subset H = 2 X \subset \mathcal{F}^{-1}(\mathcal{F}(X))$$

Fie & E X.

Johnson 3(3) € \$(X).





Presymem ca q este injectiva.

me 3-1(3(x)) =>3(m) € 3(x) =>3) \*€x 0.2.

B(m) = b(x)

X = x = x = anitosymi stre & mus?

=> ~ E X

2. Fix 
$$g: \mathbb{R} \to \mathbb{R}$$
,  $g(\mathfrak{X}) = \begin{cases} \mathfrak{X} + \mathfrak{L}, & \mathfrak{X} < 0 \\ \mathfrak{X} + \mathfrak{L}, & \mathfrak{X} < 0 \end{cases}$ 

$$S([a]) = (0,1]$$

$$\beta^{-1}([\frac{1}{2},2])=[-\frac{1}{2},0]\cup[\frac{1}{2},1]$$
  
 $\beta^{-1}([\frac{1}{2},2])=[-\frac{1}{2},0]\cup[\frac{1}{2},1]$ 

$$0 \in \mathbb{Z}(A)$$

## 3) Tranzitivitate:

$$\frac{2025}{2} = \left\{ a \in \mathbb{R} \mid a \sim \frac{2025}{2} \right\}$$

$$a \sim \frac{2025}{2} = a - \frac{2025}{2} \in \mathbb{Z}$$

