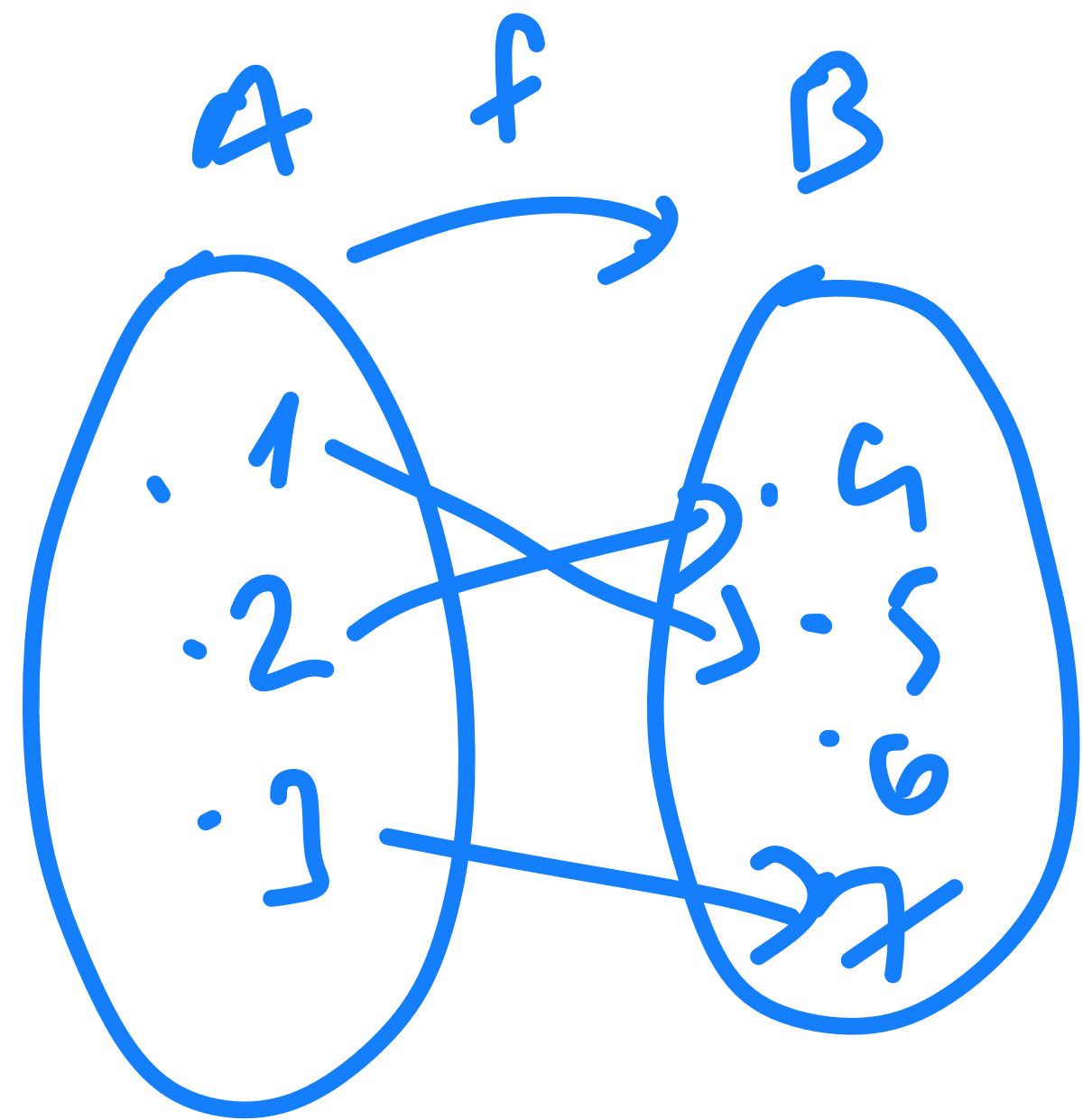


Fonksiyon Türleri:

1. Bire-bir Fonksiyon:



$$s(A) \leq s(B)$$

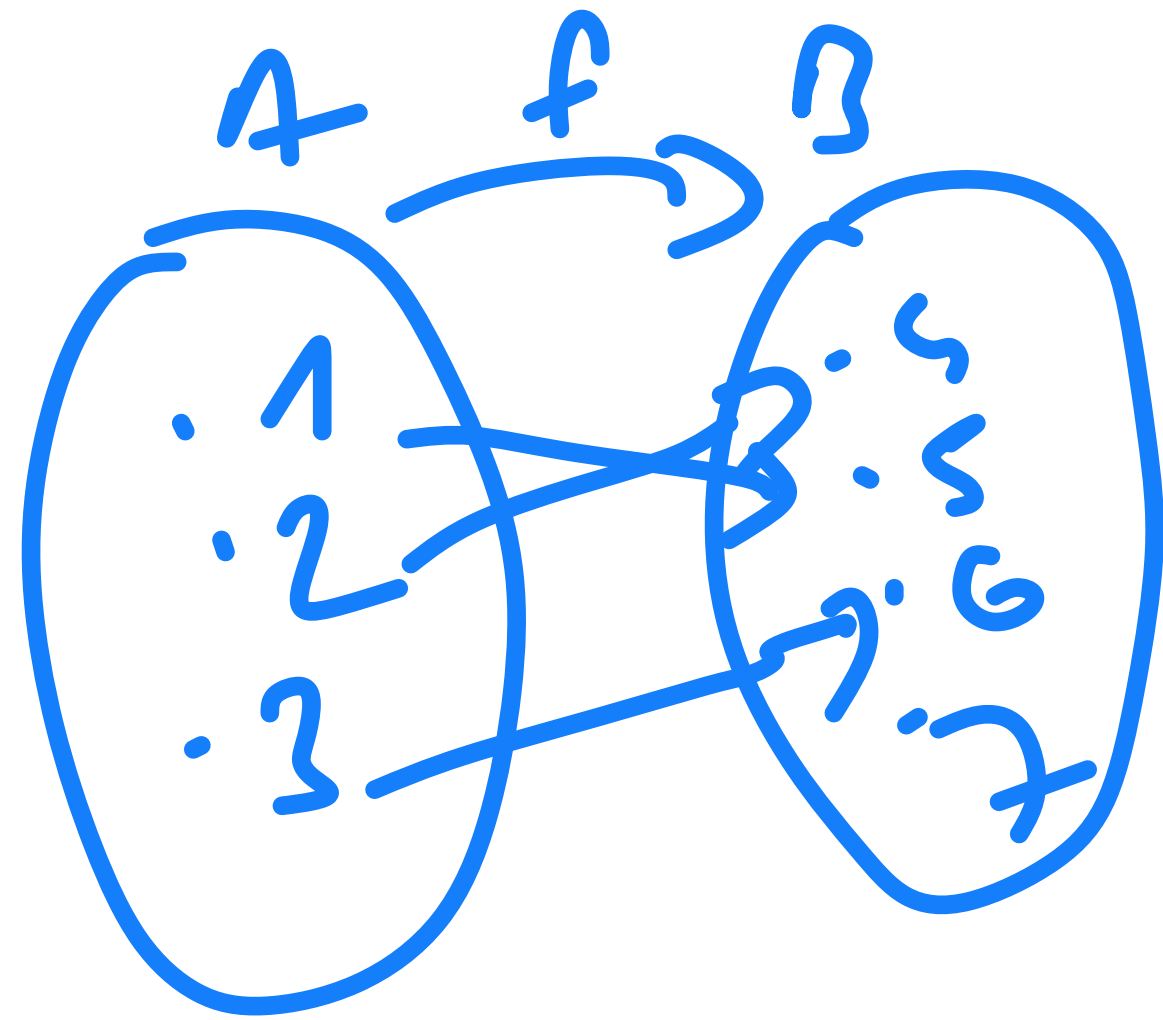
Herkes
0 farklı yere
gidecek.



$$f: \mathbb{R} \rightarrow \mathbb{R}, f(x) = x^2$$

$$f: \mathbb{N} \rightarrow \mathbb{N}, f(x) = x^3 + 1$$

2. İçine Fonksiyon:

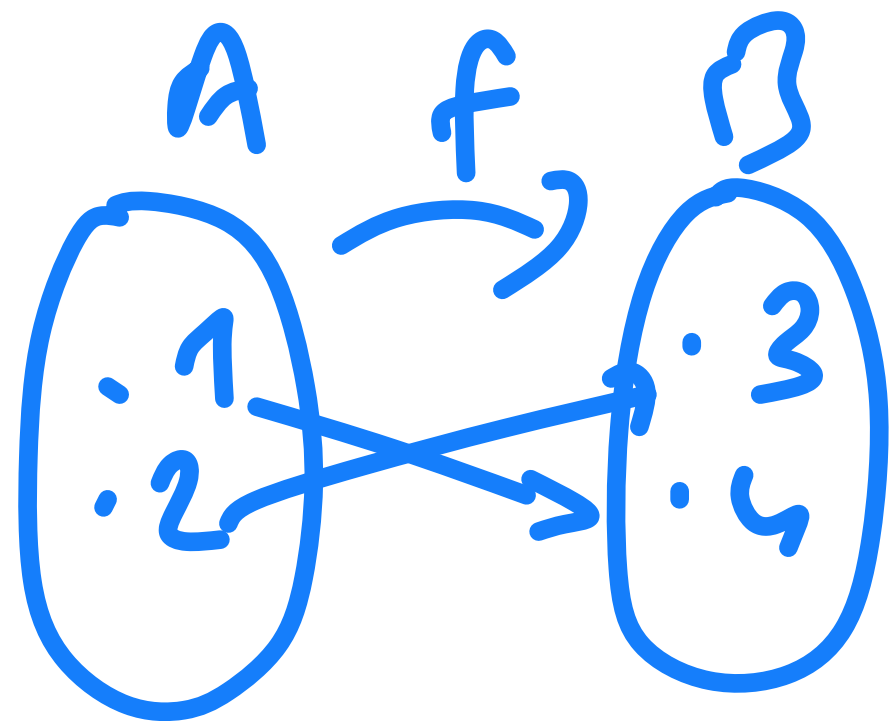


\nexists D.K de
o acıktan eleman
kalıcak.

$$\exists f: \mathbb{N} \rightarrow \mathbb{Z}, f(x) = x + 3$$

$$f: \mathbb{Z} \rightarrow \mathbb{Z} \quad f(x) = 2x + 1$$

3. Örten Fonksiyon:



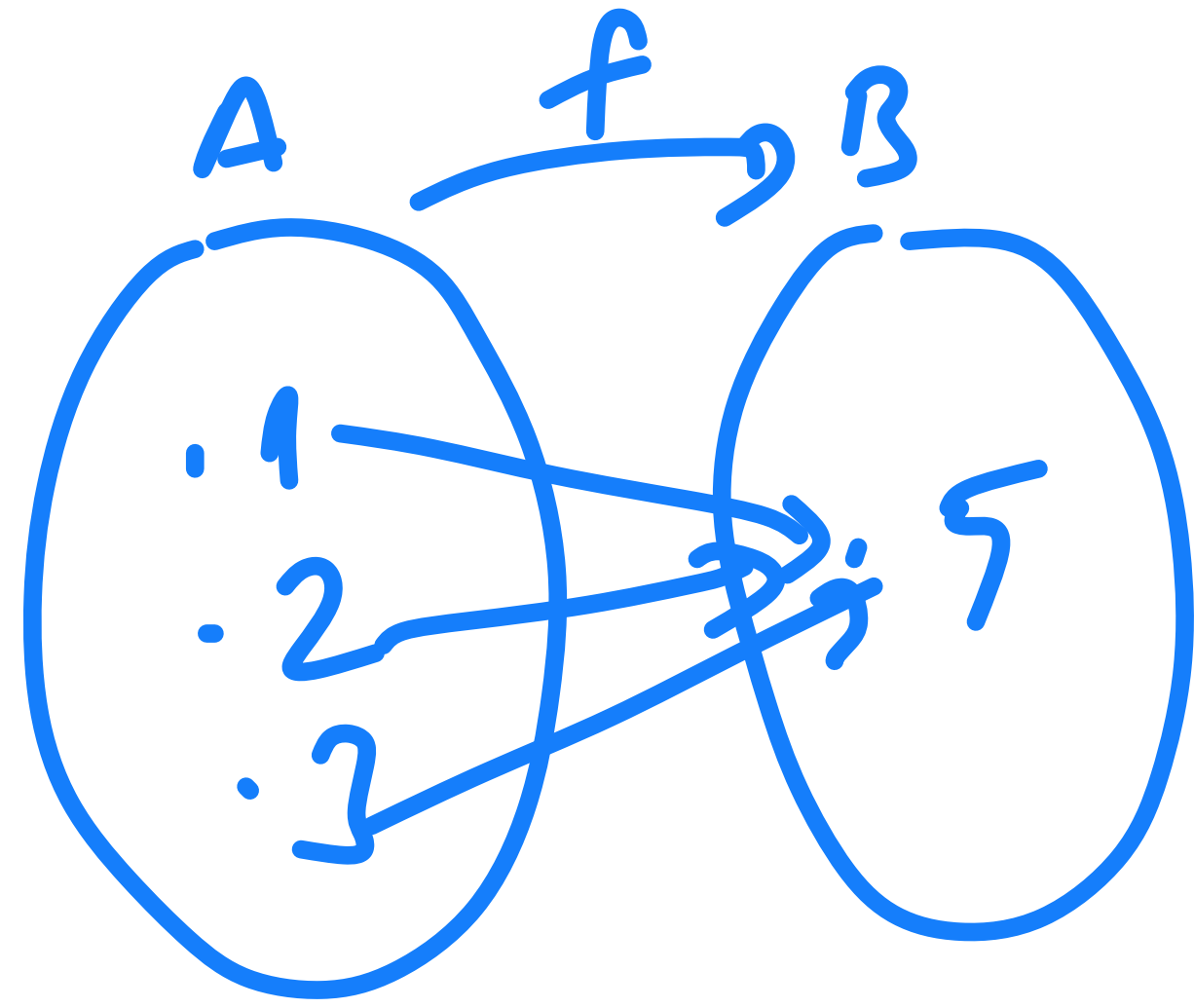
\nexists D.K de acıktan
eleman kalmicak.

$$s(A) \geq s(B)$$

Yatay D. Testi (1-1) (ölm)

x ele. çizilen boy.
graf. tek nok. beşme

Sabit Fonks. - Sıfır Fonk.



Herkes bir kişiye
gidecek.

$$\underline{f(x) = c}$$

ör

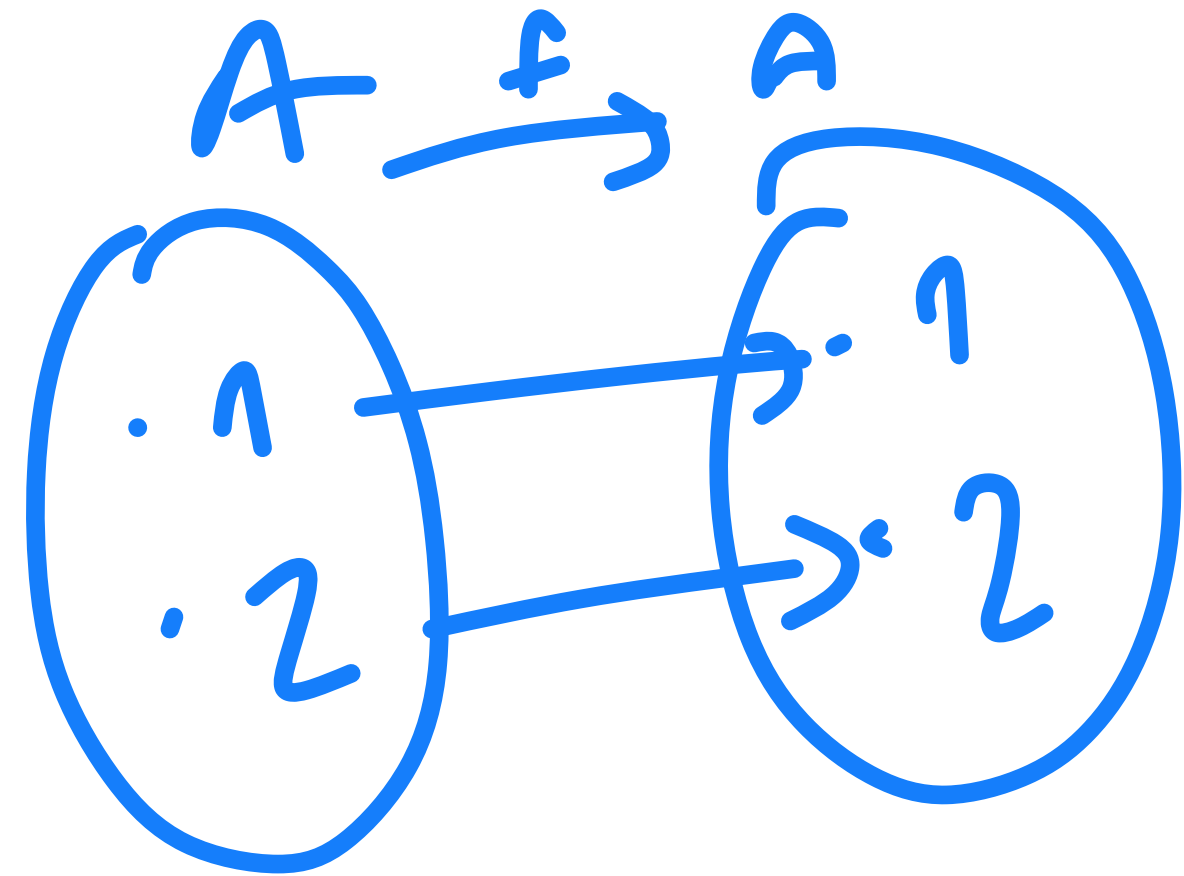
$f(x) = 0$ fonk. sabit fonk.
denir.

NOT: $f(x) = \frac{ax+b}{cx+d}$

sabit ise:

$$\frac{a}{c} = \frac{b}{d}$$

Birim Fonks. I



\forall için - Disi Aynı

$$f(x) = x$$

$$7 \quad f(x) = (a-3)x^7 + 5x - bx + a+b$$

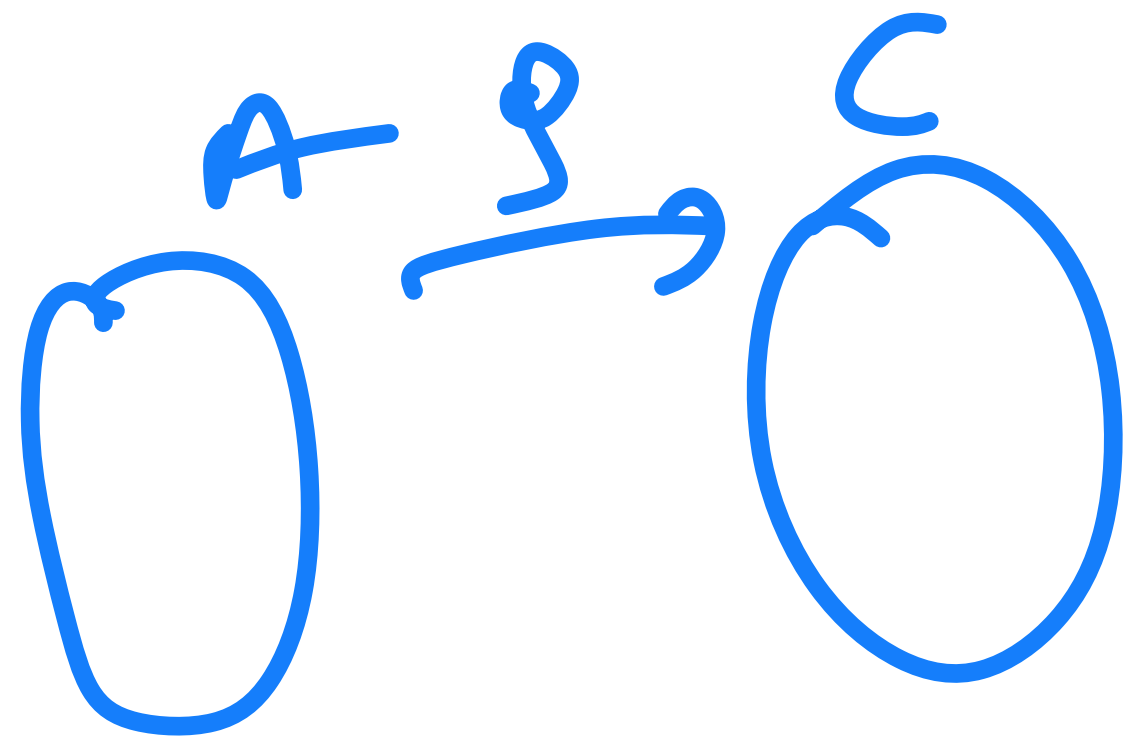
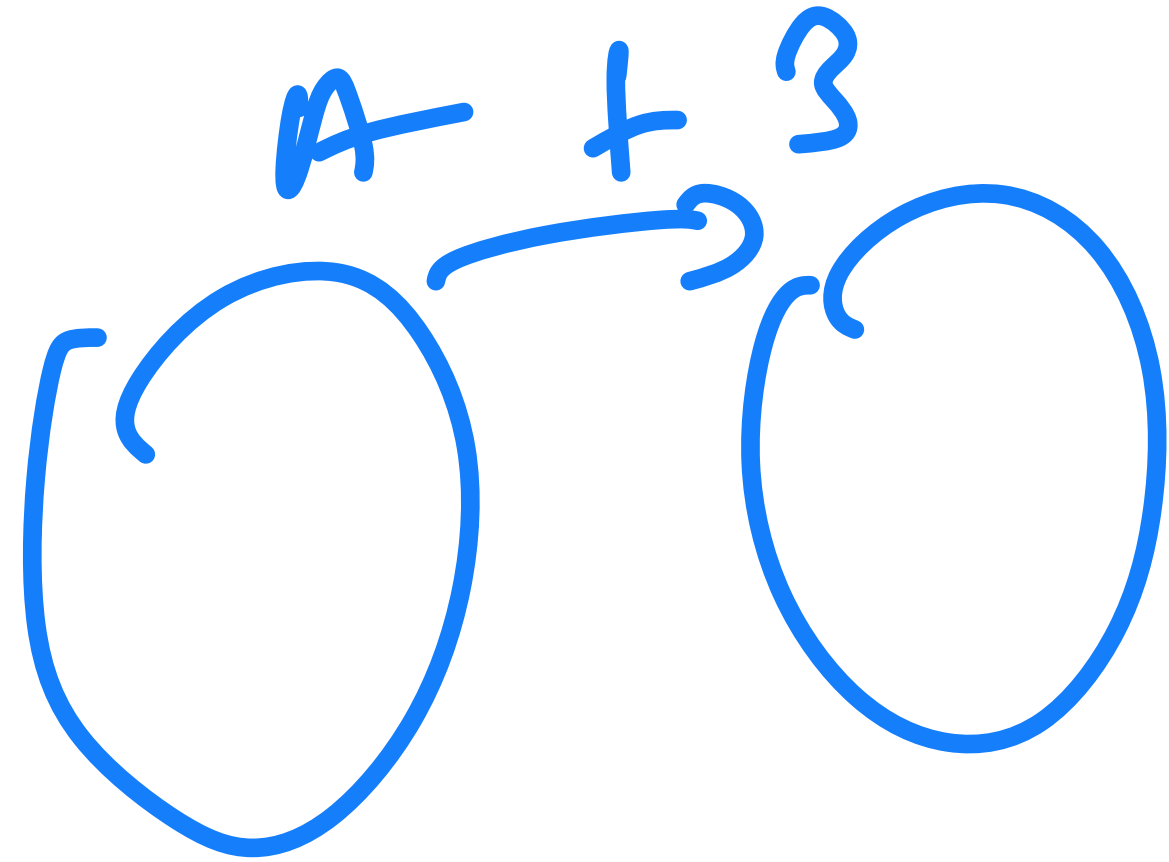
sabit fonk. old. göre, $f(100) = ?$

7 $f: \mathbb{R} \rightarrow \mathbb{R}$ v.ä $y=f(x)$ birim fonk

$$f(5x-2) = (a-3)x^2 + bx - 3x + c$$

old. göre, $a+b-c=?$

Eşit Fonk.



! T.K aynı G.K. aynı olmak

$$\underline{f(x) = g(x)}$$

↪ Aynı dereceli terimlerin
katsayıları eşit.

$$\neg \quad f: \mathbb{N} \rightarrow \mathbb{N}$$

$$f(x) = 5x + 6$$

$$g: \mathbb{N} \rightarrow \mathbb{Z}$$

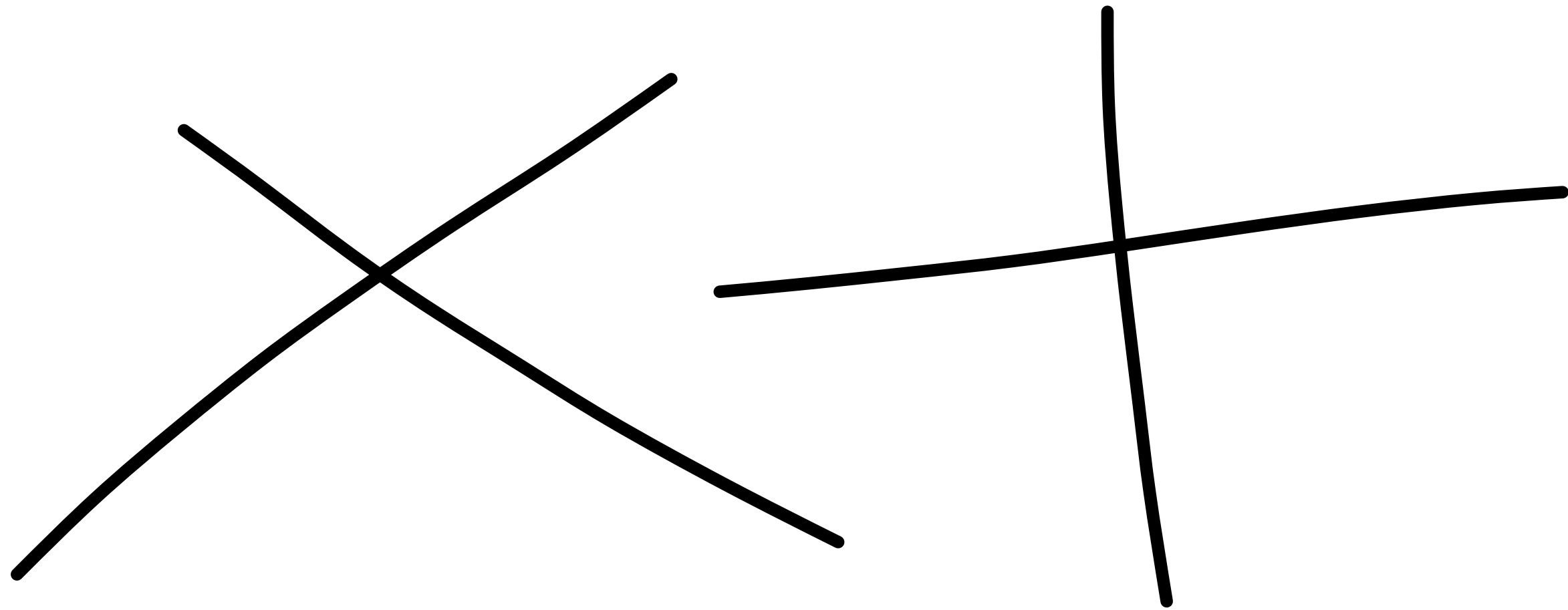
$$g(x) = (a+1)x + a + 4$$

$f: \mathbb{N} \rightarrow \mathbb{Z}$ es't fnh old- $g \geq 0$, $a \cdot b = ?$

Döğrusel Fonk.

a ve b gerçel sayı

$$f: \mathbb{R} \rightarrow \mathbb{R}, \quad \boxed{f(x) = ax + b}$$



$$\tau \quad f: \mathbb{R} \rightarrow \mathbb{R} \quad \text{o.ü.}$$

$$f(x) = (a-3)x^2 + ax + a$$

döğrusel fonk. old. göre

$$f(5) = ?$$

7 $f(x)$ dogrusal funke o.ü.

$$f(2) = 4$$

$$f(1) = 12$$

$$\text{old } y > e, \quad f(3) = ?$$

