

$-\infty \leq x \leq \infty \Rightarrow 0 \leq x^2 \leq \infty$
 $-\infty \leq |x| \leq \infty \Rightarrow 0 \leq |x| \leq \infty$
 $f(\infty)(1) \leq f(x)(1) \leq f(0)(1)$
 $\Rightarrow \infty \geq -x \geq -\infty$

Aim :- 100/100 In Maths

$f(x) \rightarrow$ Y axis pr shadow out $\rightarrow$ note
 $x \rightarrow$ X axis pr shadow

Relation and functions

① Ordered pair $\rightarrow$ Do pair equal
 for corresponding elements equal.

Ex $(x+1, y-1) = (2, \frac{y}{2})$
 (find x and y)

② Cartesian Product

- $\rightarrow$ Represented by $(X) (A \times B)$
- $\rightarrow$ A ke same elements ki image B ke same elements ke saath.
- $\rightarrow n(A \times B) = n(A) \times n(B) = pq$
- $\rightarrow$ Ordering is very imp. especially in case of 3 set cartesian product.

③ Relation :- ek type ka cartesian product jisme kuch condition lagti ho.

- $\rightarrow$ Represented by $(\rightarrow) (A \rightarrow B) : R$
- $\rightarrow n(A \rightarrow B) : R = 2^{pq} = 2^{n(A \times B)}$
- $\rightarrow$ Subset of cartesian product.

④ functions :- A ke same elements ki image (one or more) image with set B elements.

