



## Advantages of MSE.

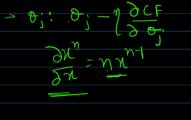
> Errors don't Cancel out each other. MSE = In E (fact form)

> MSE is differentiable

-> It is a convex function.

It has only one local and

One global minima.



Convex function -> One minima Cost for has only one princina.

T non- Convex Cost function.

Saddle louint

-> Emphasis on large

Erron: Squaring amplifies the impact of large error > Sensitive to significent deviation.

MSE = 
$$\frac{1}{2}$$
 \( \frac{1}{2} \) \( \frac{1}{2

