## Twitter Thread by **HMK alias MANOJ**





## **#Knowledge**

## **#Options**

Ever wondered y gamma is the enemy of straddle / strangle sellers and what it means?

Presume readers are aware of option Greeks meaning...

To understand, first ...

Relationship between delta, gamma, theta and option premium.

....

••••

Theta + (int Rate x Underlying price x Delta) + (0.5 x variance of underlying x Underlying price x Underlying Price x Gamma) = Int rate x Option premium.

Strangle and straddles are delta neutral setup; For a delta neutral setup, the second term becomes zero; Hence,

Theta +

(0.5 x variance of UL x UL price x Underlying price x Gamma) = Int rate x option premium

Straddle and strangles have typically zero delta at initiation; they also have positive theta, meaning they gain over time assuming other components of option r constant ..

...

In a delta neutral portfolio, if theta is largely +ve, Gamma will be -ve by a large extent to satisfy the above relation

mathematically, which means that as expiry nears the strangles and straddles will have large -ve gamma; This is wat u see traders telling gamma effect.