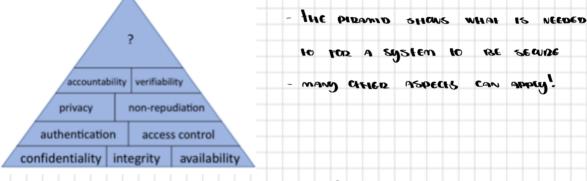
## Into feature

· IN SECURITY ASSUMPTIONS WIN BE BROKEN!!!

## Security Coals

- · CONFIDENTIANTY -> CANESDOOPPING, MAN-IN-HIE-MIDDLE.
- · luterally -> masqueeablut, message tamperiut, replaying.
- · AVAILABILITY > DENIAL OF SERVICE.
- So. .. WHAT DOES IT MEAN THAT A SYSTEM IS SECURE ?!?
  - WE CAN TAKE A LOOK AT THE FORCHING:



WE CAN SAY HATE "DECOUNTY IS IMPOSSIBLY HARD"!

- YOU MUST DEFEND AGAINST ALL POSSIBLE ANACKS
- ADVERSARY NEEDS TO FIND SUST ONE AHACK HIAT WORKS
- I NO PEDFECT SENDING
- Generally is measured in the desarrices required of the Adversary!

## GENDING PRINCIPLES

- · Economy of Mechanism:
  - KEED IT SIMPLE!
  - Complex design yields complex failure analysis!
- · Open Design:
  - Security of the system shallo Not beachd on secrecy of its podection mechanisms.
  - The Advedsagy knows the system!
- MINIMUM EXPOSUDE:
  - VIMMISE THE ATTACK SURFACE A SYSTEM PRESENTS
  - DEDUCE EXTERNAL INTERFACES
  - dimit infos f whom of oppositivity!

- · JEAST PRINIECE:
  - Any component should use the deast set of Priviles.
  - DESTRICT EMAIL ACCESS, POWERDOWN DOESN'Y DUN AS DOOF.
- · FAIL GATE DEFAULTS:
  - START & END IN A SECURE STATE
  - IF FAILURE, NO-ONE HAS ACCESS!
- · Complete Mediation:
  - Access to anything must be componed!
  - 05 access to the sys, abannochied it access to physical disk is possible!
- . No sincle point of failure
  - Bullo DEDUNDANT SECURITY!
  - GEPARAHON OF DUTY IS KEY!
- · Psychological Acceptability:
  - Design usable thinks!!!
  - Help used to make the pight chace!