integer a wich sates from the equations. Since any integer greater
than builty is situed a peime, on expressible as a product of any
it is quite easy to believe that the squire poot of many integers
is not a pational number. The sounce east of 2 is noted u tax
SIMPLEST EXAMPLE.
Felix Klein, the German mathematrician, has left us an interesting
derivation. He stated that the word tierrational is without Joulet the
teaththis is into like of the Greek of A or you "The Greek e Find och or of"
were could not like cational Housever, in says i wax pressible and
implies that the new Numbers and not, like entioned when
be expressed by the estion of two whole wo wholes. The misonless
Standard put inpose the lation "Antio", that it could only convey
HE MEANING "CEASON" GOVE TO IGNATIONAL EVE MEANING CHEASONA
de with of covers, is a missioner
House were the me need, it is possible to express every toget ional whole
M alimit of a sequence of Ostional numbers. Toward the pres
ent of the 16th centrey decimals were intenduced. It was then
sound that entiand numbers coold be expressed as finite and
in Finite decimals. It was then found that entrough windows cold
DE expressed as Fivite and infinite sectors. The ine nite
decimals was Always periodic of Recogning. It is Easy
to set up decinals wick are infinite and prot recomming IF - p Topational number
ME WANTE THE ACT THEM DECIMALS DEE NOWDERS THEN THIS DEE.
Subset of decimals constitutes the Techtional numbers.
However the people that a priven number, such as to, is an
TREATIONAL NUMBER IS NOT ofways so simple as that for 12.
As montroved previously, the entire set or entire and mo
Teastionint vouboes is colled set or cont numbers RE(Q),(I)
6. Operations upon Transional numbers.
We operate upon these injectional numbers just in we do well
eational applicas, this is a very important matter, we consider
Trisational vanders between ever narrowing external linity
And Restorm upon these national limits and operations The
Dealt will place be enclosed between ever necessarily limits.
As example, separate all extioned vundoes, all, into eno
classes good the at < 50° constitues the lower class, and
2 > 56 deposed the upper class. The cut wowben withe
square cost of 5. Separate all pational soulocas, cla,

4 14