regraphes
Any operation you do to true numbers that accepted will result in a still equal
number store is remay to distinguish ten
A, BEB A+C =B+C
1 = B linegralities are preserved for addition/subtraction
ATT A B CT CT -C -C
hequality is presence I with multi/divide by
tre #, If c>0, the AC=CB, 2==

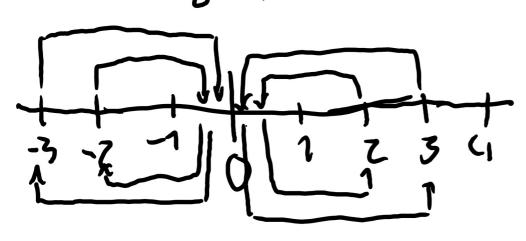
Multiplying both sides by -1 reverses inegrality

Since A & B, A - A & B - A, O & B - A

O-B & B - A - B

- B & - A

x ar : by -ve constant, inequality reverses IF A, 0 + 0, and A < B, which is large? for f b A and B boom +ve, then ALB > 16 B and B = B = B La inequality is flipped If And Bre-re,  $A \ge B \Rightarrow R = AB \Rightarrow B = A$ If we and other is the いよる



Common inequalities for XER, X<sup>2</sup>20 for any x, y ER, then x<sup>2</sup>+y<sup>2</sup>/22xy (x-y) 20  $x^{z}$  - $z_{xy}+y^{z} \ge 0$ x2+y2>2xy if a,10>0 Geometric means or a,10<0 Geometric means awage > A+B AM - am inequality a,b>0 then vab = == x= 10 and y= 15 a+6225a56 W+p Z rap