

Geometric Series is said to be CONVERENT if: -> the terms are getting smaller and smaller and smaller and smaller and smaller -> This happens if the common ratio is between -1 and 1 -14r<1 [r] [-> If the Series is Convergent then it has a finite sum only works Ex: t, < 2 If ris bigger than I or less than -1, MY or rc-1, then the Series DIVERGENT and has no finite sum.

Ex2
$$10 - 10 + 10 - \dots$$
 $t_1 = 10$

Society

 $t_1 = 10$

Society

 $t_1 = 10$

Society

 $t_1 = 10$

Society

 $t_2 = 10$

Society

Therefore

our formula

$$t_1 = 10$$

Society

 $t_2 = 10$

Society

 $t_3 = 10$
 $t_4 = 10$

Society

 $t_4 = 10$
 $t_4 = 10$

Society

 $t_4 = 10$
 $t_4 = 10$

Society

 $t_4 = 10$
 $t_4 = 10$
 $t_4 = 10$

Society

 $t_4 = 10$
 t

