The state of the s · H1 · I did this whole assignment then accidentally threw it away so I'm doing this as quickly as possible as simply as possible P, = 1.4

Pindividual perimeter 1a. P2=52,4 P3=/V2),4 V2 12 P: = (1/2)1-1.4 V2 4 Total perimeter JB = = [ (12) , 4 = = (12) , 4 agrees with manual manual Bo = geo, series = 1-1- - 4 13,66 addition

a,=12=1  $a_2 = (\sqrt{2})^2 = \frac{1}{2}$ Ao = 2 Well Known Sum. Bo - Bn/2 E Strictly increasing series Bo- $\beta_n = \xi$   $\beta_0 - \beta_n = \xi$   $\beta_0 - \frac{1}{2}(\frac{\sqrt{2}}{2})^{\frac{1}{2}} + \frac{1}{2} = \xi$   $\delta_1 = \xi$ ものののののののかかかか Sh= 5 rk= 1-rht/

Bo-4,1-52 = E  $\frac{B_{00}-2=-1-\sqrt{2}}{1-\sqrt{2}}$  $\left(1-\frac{\sqrt{2}}{2}\right)\cdot\left(\frac{B\omega+\varepsilon}{4}\right)=1-\left(\frac{\sqrt{2}}{2}\right)^{n+1}$ In ((1-5/2)(Bo-E)-1)=In (12)(n+1) In /1-52/130-2) Somethings off, phygodir and this can't be right.

a) To get 2=10 you need around h=51. I got this manually as my function is wrong. 5=10 would take an extremely largen. This is because the 5mm approaches the final value asymptotically 111se .50 In particular, the perimeter takes Monger to converge than the area gince of 12. The higher order terms are larger in the perimeter Ger19,