

Page 18 Investigation

Using a table to investigate convergence of an infinite sum

TI-84 Plus

Plot1 Plot2 Plot3

$$Y_1 = \frac{5.64 \left(1 - \frac{1}{2}^X \right)}{1 - \frac{1}{2}}$$

Y2 =
Y3 =
Y4 =
Y5 =

X	Y1	
9	11.258	
10	11.269	
11	11.274	
12	11.277	
13	11.279	
14	11.279	
15	11.279	

Y1=11.2796557617

Casio fx-9860GII

Table Func :Y=

$$Y_1 = \frac{5.64 \left(1 - \frac{1}{2}^X \right)}{1 - \frac{1}{2}}$$

Y2:
Y r Xt Yt X

Y1=(5.64(1-(1/2)^(X))

X	Y1
12	11.277
13	11.278
14	11.279
15	11.279

11.27965576

FORM DEL ROW EDIT G·CON G·PLT