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Finding least n in a geometrical sequence

TI-84 Plus

Plot1 Plot2 Plot3
 $\sqrt{Y_1} = \frac{3(\sqrt{2}^X - 1)}{\sqrt{2} - 1}$
 $\sqrt{Y_2} =$
 $\sqrt{Y_3} =$
 $\sqrt{Y_4} =$
 $\sqrt{Y_5} =$

X	Y1	
1	3	
2	7.2426	
3	13.243	
4	21.728	
5	33.728	
6	50.698	
7	74.698	

X=1

X	Y1	
7	74.698	
8	108.64	
9	156.64	
10	224.52	
11	320.52	
12	456.28	
13	648.28	

Y1=648.286363289

Casio fx-9860GII

Table Func :Y=
 $Y1 = \frac{3(\sqrt{2}^X - 1)}{\sqrt{2} - 1}$ [—]
 $Y2 =$ [—]
 $Y3 =$ [—]
 $Y4 =$ [—]
 [SEL] [DEL] [TYPE] [STVL] [SET] [TABL]

X	Y1	
1	3	
2	7.2426	
3	13.242	
4	21.727	

1
 [FORM] [DEL] [ROW] [EDIT] [G-CON] [G-PLT]

$Y1 = (3((\sqrt{2})^{(X)} - 1)) / (\sqrt{2} - 1)$

X	Y1	
10	224.52	
11	320.52	
12	456.28	
13	648.28	

648.2863633
 [FORM] [DEL] [ROW] [EDIT] [G-CON] [G-PLT]