

Decade v Population.

# Decades (after 1900) v. Population in Billions

NORMAL FLOAT AUTO REAL RADIAN MP

L1	L2	L3	L4	L5	2
7	3.7				
8	4.5				
9	5.3				
10	6.1				
11	6.8				

NORMAL FLOAT AUTO REAL RADIAN MP

**QuarticReg**

$y = ax^4 + bx^3 + \dots + e$

a = -.0041666667  
 b = .1416666667  
 c = -1.7958333333  
 d = 10.858333333  
 e = -22.9  
 R<sup>2</sup> = 1

NORMAL FLOAT AUTO REAL RADIAN MP

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NORMAL FLOAT AUTO REAL RADIAN MP

NORMAL FLOAT AUTO REAL RADIAN MP  
PRESS + FOR ΔTb1

X	Y1	Y2	Y3
4	-.2	2.225	-.9917
5	1.6	1.4417	-.5917
6	2.8	1.0083	-.2917
7	3.7	.825	-.0917
8	4.5	.79167	.00834
9	5.3	.80833	.00833
10	6.1	.775	-.0917
11	6.8	.59167	-.2917
12	7.2	.15833	-.5917
13	7	-.625	-.9917
14	5.8	-1.858	-1.492

NORMAL FLOAT AUTO REAL RADIAN MP  
PRESS + FOR ΔTb1

X	Y1	Y4	Y5
4	-.2	1.1125	-556.3
5	1.6	.72083	45.052
6	2.8	.50417	18.006
7	3.7	.4125	11.149
8	4.5	.39583	8.7963
9	5.3	.40417	7.6258
10	6.1	.3875	6.3525
11	6.8	.29583	4.3505
12	7.2	.07917	1.0995
13	7	-.3125	-4.464
14	5.8	-.9292	-16.02

X=14

NORMAL FLOAT AUTO REAL RADIAN MP

$$\frac{(Y_1(11) - Y_1(7))}{(11 - 7)} = .775$$

$$\frac{(Y_1(10) - Y_1(8))}{(10 - 8)} = .8$$

$$\frac{(Y_1(9.5) - Y_1(9))}{(9.5 - 9)} = .8078125$$

NORMAL FLOAT AUTO REAL RADIAN MP

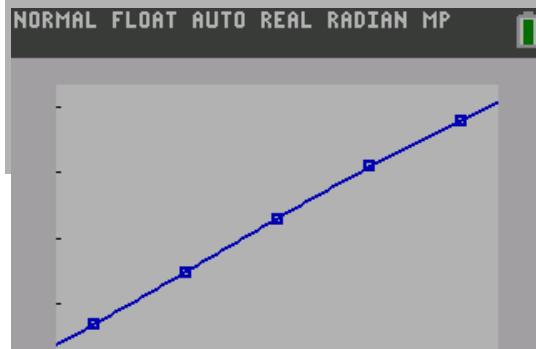
NORMAL FLOAT AUTO REAL RADIAN MP

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**Logistic**  
 $y=c/(1+ae^{(-bx)})$   
 a=17.26455086  
 b=.3417641063  
 c=9.53927036

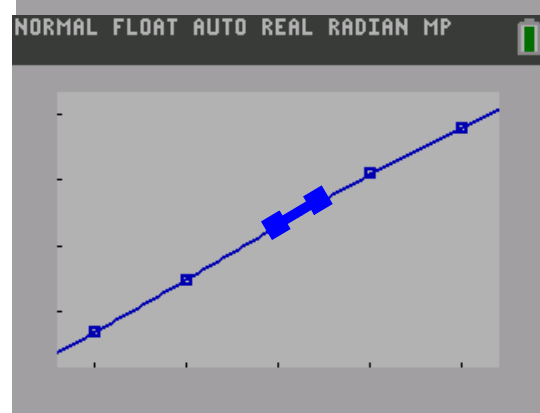
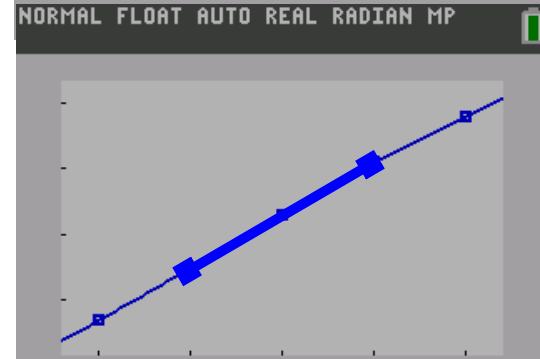
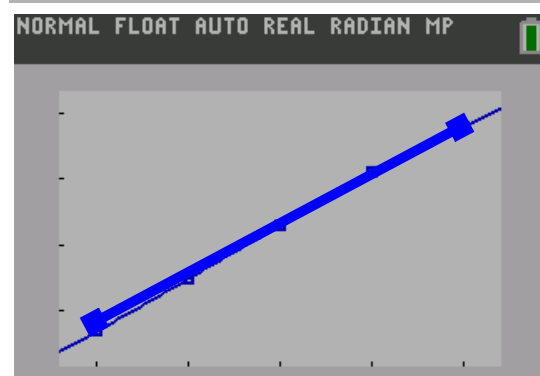


X	Y1	Y2	Y3
4	1.7665	.49194	.10586
5	2.3118	.59862	.10542
6	2.9614	.69789	.09043
7	3.6999	.77405	.05933
8	4.4968	.81238	.01588
9	5.3092	.80461	-.0311
10	6.0911	.75248	-.0713
11	6.803	.66692	-.0972
12	7.419	.56357	-.107
13	7.9292	.45739	-.1036
14	8.3365	.35923	-.0918

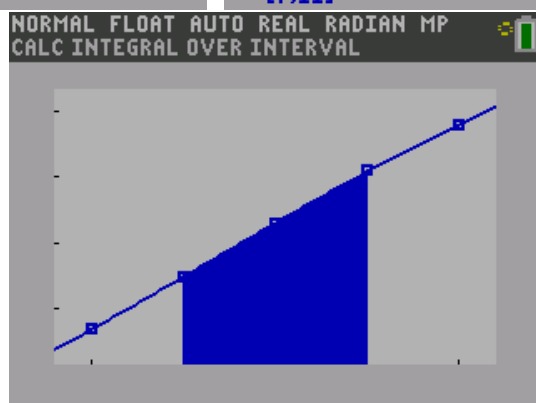
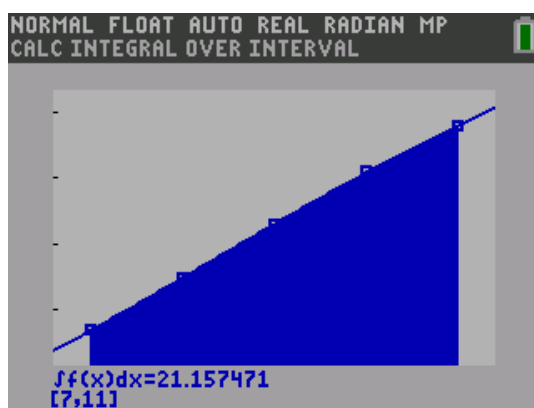
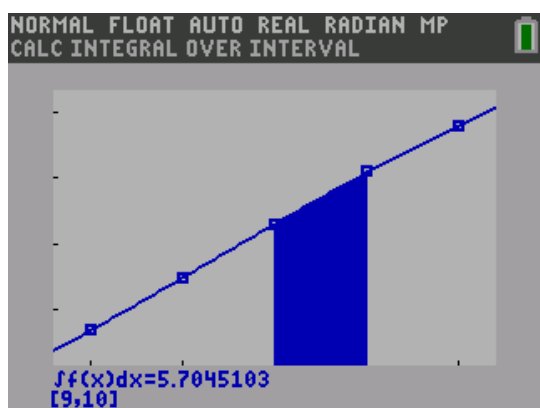
X	Y1	Y4	Y5
4	1.7665	.24597	13.924
5	2.3118	.29931	12.947
6	2.9614	.34895	11.783
7	3.6999	.38702	10.46
8	4.4968	.40619	9.0329
9	5.3092	.40231	7.5776
10	6.0911	.37624	6.1769
11	6.803	.33346	4.9017
12	7.419	.28178	3.7981
13	7.9292	.22869	2.8842
14	8.3365	.17961	2.1545

X=4

**Logistic**  
 Done  
 $(Y_1(11)-Y_1(7))/(11-7)$   
 .7757601967  
 $(Y_1(10)-Y_1(8))/(10-8)$   
 .7971656203  
 $(Y_1(9.5)-Y_1(9))/(9.5-9)$   
 .7949971695



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