

#1)

L1	L2	L3	Z
1	2	-----	
2	25		
3	81		
4	175		
5	310		
6	497		

L2(7) =			

PwrReg
 $y = a \cdot x^b$
 $a = 2.000877106$
 $b = 2.298056258$
 $r^2 = .9999967547$
 $r = .9999983773$

$2.001(15)^{2.298}$
 1009.03168

1009

$y = 2.001x^{2.298}$

#2)

L1	L2	L3	Z
4	3	-----	
5	1		
12	-5		
16	-7		
22	-10		
31	-12		

L2(7) =			

LnReg
 $y = a + b \ln x$
 $a = 13.01342934$
 $b = -7.313485876$
 $r^2 = .9980573567$
 $r = -.9990282061$

$13.0134 - 7.3135 \ln x$
 -15.59718025

-16°

$y = 13.0134 - 7.3135 \ln(x)$

$e^{-13.0134}$
 -13.0134
 Ans -7.3135
 1.779366924
 $e^{1.779366924}$
 5.926103557

#3)

L1	L2	L3	Z
0	1000	-----	
1	610		
3	220		
4	132		
6	45		

L2(6) =			

ExpReg
 $y = a \cdot b^x$
 $a = 1018.283941$
 $b = .5968580214$
 $r^2 = .9997422274$
 $r = -.9998711054$

$1018.2839(.5969)^x$
 16.40897708

6

$y = 1018.2839(.5969)^x$

16