OLYMPIC STEEL
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Advanced Math

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50) n=1, A=$45259.26
n=2, A=$49561.44
n=4, A=$51977.87
n=12, A=$53700.66
n=360, A=$54568.25
Continuous, A=54598.15

52) t=1, P=$88692.04
t=10, P=$3019.42
t=20, P=$9071.80
t=30, P=$2732.37
t=40, P=$822.97
t=50, P=$247.88

53) $A = Pe^{rt}$
$= 25000e^{(.0875 \cdot 25)}$
A=$222,822.57

54) $A = 5000\, e^{(.075 \cdot 50)}$
A=$212605.41

55) a → Simple interest is linear
Compound Interest is exponential

b) $y_1 = 500\left(1 + \frac{.07}{1}\right)^{(X)}$
$y_2 = 500(.07)(X) + 500$ xmin 0, xmax 35
ymin 0, ymax 5000

56) $11,250

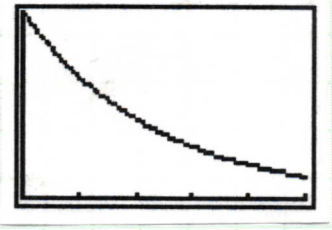
57) $23.95(1.04)^{10}$
C=$35.45

58 b) $421.12
c) $350.13

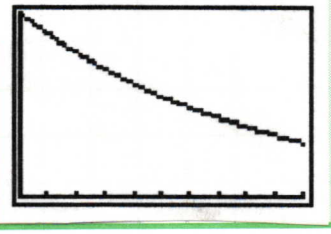
59) a) 100
b) 299.97
c) 899.8

60) a) 3351
b) 4492

61) a) 25g
b) 16.297g

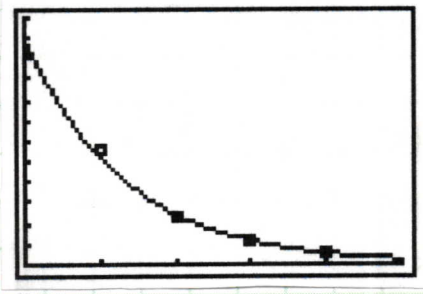


62) a) 10g
b) 7.851



63) a) use xmin = -5 ymin = 0
xmax = 25 ymax = 12000
use ExpReg (L_1, L_2, Y_1)

b) y = 10957.738742213 (0.86080211813192) ^ X



c) 3303.3568

d) 11.347721