HW for Chapter 8

1. For problem 8.1:
2. Find the equation of the best fitting St. line and graph it on EXCEL using rectilinear axes.
3. Find the value of the correlation coefficient r.
4. Find the value of the resistance in ohms for each voltage. Recall that V=I\*R
5. For problem 8.2:
6. Find the equation of the best fitting St. line and graph it on EXCEL using rectilinear axes.
7. Find the value of the correlation coefficient r.
8. For problem 8.3, do the following: $A\left(t\right)=A\_{o}e^{-kt}$
9. Plot Balonium vs. time On EXCEL using rectilinear axes.
10. Plot Log(A) vs. time using rectilinear axes, and find the value of $A\_{o}$ and k using the TI-83/84.
11. Plot A vs. time using semi-log paper.
12. For problem 8.4, do the following: $y=\frac{1}{2}gt^{2}$
13. Plot distance vs. time On EXCEL using rectilinear axes.
14. Plot distance vs. time on log-log paper.
15. Plot log(distance) vs. log(time) using rectilinear axes and find the value of g using the TI-83/84.