Use the Cancer unit in the supplementary text materials (Pages AR-141 to AR-170 in your text) to do the following exercises and questions

Due Date: ____________________

1) What are the 4 properties of cells’ natural damage control mechanisms?
2) What are “tumor suppressor genes,” and what is their normal affect on cell division? How do they do it?
3) What are the 2 possibilities that can lead to tissue growth and which route do cancer cells take?
4) What are “cyclins and how do they regulate the cell cycle?”
5) What are “proto-oncogenes,” and what is their normal affect on cell division? What happens when they become oncogenes?
6) Briefly describe the 6 hallmarks of cancer cells.
7) What types of mutations to normal genes tend to result in production of cancerous cells?
8) What types of mutations can lead to drug resistance in cancer cells?
9) What is cachexia and what is a proposed mechanism for it?
10) Differentiate between “hereditary” and “sporadic” cancer.