Assignment
Introduction to Broadband Technologies

	This video tutorial focuses on the various types of broadband technologies available to connect homes and business to the Internet. Both pros and cons of the technologies are discussed so that the student can make informed decisions regarding Internet Service. Topics include: • Basic Broadband Concepts • T1 • Carrier Grade Ethernet • Point to point Wireless • Wireless • DSL and Cable • Satellite

Table 1 *Eli the Computer Guy's Understanding Switches Video Tutorial.*

You can find this video tutorial at:
http://www.elithecomputerguy.com/2010/01/01/understanding-broadband/

Instructions
For this Assignment, you will first view the Introduction to Broadband Technologies Video Tutorial. After viewing the tutorial, answer the related questions. When you have completed your answers, post them to your online portfolio.

Questions
1. In a broadband context, what is the difference between synchronous and asynchronous communications?
2. What is latency?
3. From Eli's point of view, what is the difference between business and residential service?
4. Explain the difference between a static and a dynamic IP address.
5. Why might an organization want a static rather than an IP address?
6. Why would an ISP block a particular port?
7. What is an SLA?
8. When would you use a T1 line?
9. What are two advantages of a T1 line?
10. What is the primary disadvantage of a T1 line?
11. What is the primary advantage of carrier class Ethernet?
12. In wireless networking, what does 'unlimited Internet' mean?
13. In an old building, what could be a problem source concerning DSL service?
14. With a cable connection, what type of problem could be associated with a trunk line?
15. From a business perspective, what is a potential weakness of Cable?
16. What is FIOS?
17. What is the reason that you probably don't want a satellite connection?