COS116 Sample Lab Review Qs

May 6th 2011

1. Circuits: Write the truth table for the majority of 4 function and circle the correct Boolean expression.

A)
$$ABC\overline{D} + AB\overline{C}D + A\overline{B}CD + \overline{A}BCD$$

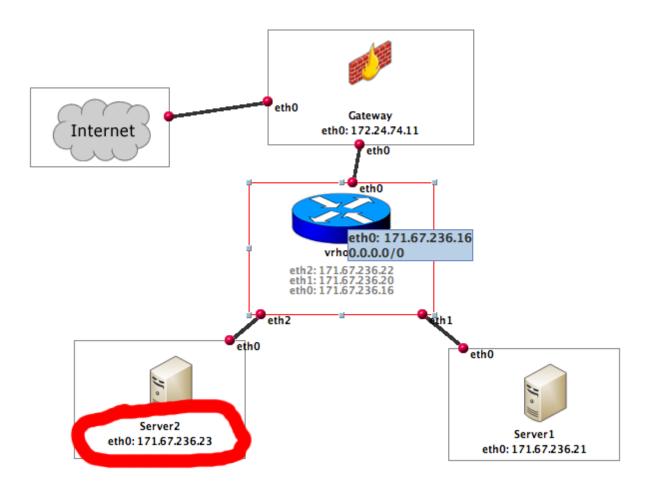
B)
$$ABC + ABD + ACD + BCD$$

C) ABCD +
$$\overline{D}$$
 + \overline{C} + \overline{B} + \overline{A}

- 2. Circuits: Which of the following additions can be done without overflow using a 4 bit adder?
 - A) 4+4
 - B) 9+7
 - C) 8+8
 - D) 7+8

- 3. Viruses and Worms: Label each of the following with "virus" or "worm", whichever is the better match.
 - often travels through email
 - exploits security vulnerabilities in the system
 - spreads fast
 - exploits buffer overflow

- 4. UDP and TCP: Label each of the following with "UDP" or "TCP", whichever is the better match.
 - guarantees delivery of packets
 - mostly used for streaming applications
 - higher overhead



5.		raphics: Label each of the following with either "true" or alse".
		RGB values describe how much red, green or black light is reflected by a pigment A 3D rectangle with eight vertices can be created using just 12 triangles
	-	Increasing the specularity of an object will cause it to appear duller
	-	A raytracer works by projecting 3D triangles onto a 2D space through transformations