ELEC2200 Homework #1 Spring 2021

Submit a single PDF file online (Canvas) by 10:50 a.m., 1/28 (Thursday).

You must show how you get your answer in each problem. The final answer only will receive no credit.

1. Calculate A+B, A-B, AxB, and A/B for the pair of binary numbers, A=1011010 and B=101111.

2. Calculate A+B, A-B, AxB and A/B for the pair of octal numbers, A=704 and B=230.

3. Calculate A+B, A-B, AxB and A/B for the pair of hexadecimal numbers, A=2CF3 and B=2B.

4. Convert the decimal number, 250.8, to binary, octal and hexadecimal numbers.

5. Convert the binary number, 10110110.001, to octal, hexadecimal and decimal numbers, using the most appropriate (effective) method.

6. Convert the hexadecimal number, 1A.1B, to binary, octal and decimal numbers, using the most appropriate (effective) method.