RGB to HEX Conversion Worksheet:

Convert the following Hex values to RGB Decimal Values:

1. AC0BFF _____
2. 11AACB _____
3. FFCC00 _____
4. 660099 _____
5. FFFFFF_____ (What color is this?)
6. 000000 _____ (What color is this?)
7. BCABFF _____
8. 99FFA1 _____
9. AFBCA5_____
10. 667AFB _____

Convert the following Decimal RGB values to Hex values

1. (255,100,87) _____
2. (109,0,124) _____
3. (86,10,91) _____
4. (255,255,255) _____ (What color is this?)
5. (0,0,0) _____(What color is this?)
6. (102,101,77)_____
7. (10,18,122) _____
8. (134,29,37) _____
9. (57,123,48)_____
10. (255,18,73)_____

Go to the following website and read the section on making colors with light.
http://mvh.sr.unh.edu/mvhinvestigations/color_investigations.htm

Give a brief description of what you read:

Find the pixel value for the center pixel by averaging the pixels around it. Put your answer in hexadecimal format.

86,10,91	102,101,77	255,18,73
57,123,48		109,0,124
255,100,87	86,10,91	255,255,255

Average in RGB _____

Average in hexadecimal _____

In your own words, describe the meaning of RGB and hexadecimal formats.

How are conversions between the two formats used in the field of engineering?