CS 7A – Spring ’13 Lab 02 – Show your work for credit Name_____

1. Determine what 4 one-byte integers are stored in these 4 bytes:
2. Determine what 2 two-byte integers are stored in these 4 bytes.
3. Determine what four-byte integer is stored in these 4 bytes.
4. Interpret the 4 bytes as 4 ASCII characters.
5. Write 6666 in binary form.
6. Write 6666 in Hex form.
7. Convert the hex number fafa to decimal form.

⋮
00101010
01101101
10001001
10001111
⋮

8. Write the polynomial $p(x) = 8x^4 + 4\boldsymbol{x^3} + 2\boldsymbol{x^2} - 1$ in Horner’s form and use that form to evaluate $p(1.2)$, step by step.

9. How many multiplications does Horner’s method use for this polynomial vs. the method of directly evaluating the polynomial term by term?

10. Write a C++ program to solve the equation $ax + b = c$ where the user supplies *a*, *b* and *c* and the program returns the solution, if there is one, or an error message otherwise. Submit the program using <your initials>lab2.cpp to ghagopian@collegeofthedesert.edu