Name:

Date:

Class: CS 160

Quiz #3

1. Convert the following numbers to binary. (Four Points)
2. 1810 =
3. 4510 =
4. 19210 =
5. 24610 =
6. Convert the following numbers to two’s complement binary. (Five Points)
7. 510 =
8. 310 =
9. 710 =
10. 010 =
11. -610 =
12. Convert the following numbers to excess-8 notation binary. (Five Points)
13. 410 =
14. -810 =
15. -110 =
16. 710 =
17. 010 =

4) Add the following binary numbers using two’s complement (Answers in ***4-bit two’s comp. binary***). (Three Points)

1. 01002 + 00112 =
2. 11012 + 01102 =
3. 00102 + 11012 =

5) Subtract the following binary numbers using two’s complement (Answers in ***4-bit two’s comp. binary***). (Three Points)

1. 01112 – 01012 =
2. 11102 – 11102 =
3. 10102 – 00102 =