

Assignment Three Lecture: Operations in bases other than 10

Due: 8:25am Tuesday, September 27, 2016

100 points

1. Perform the following operation in base 2.

$$31 + 9 (8 + 11) - 143 + (17 - 11) (10 + 12)$$

2. Perform the following operation in base 4.

$$\text{Your student ID \#} - \text{Year of your birth} + (\text{Day of your birth}) (\text{Month of your birth})$$

3. Perform the following operation in base 8.

$$9 (8) + 11 - 10 + 17 (6)$$

4. Perform the following operation in base 16.

$$82 (11) + 194 - 25 (8)$$

Submit a report that shows the conversions with the proper explanation and the final result of each operation.