CSCI2121 Assignment #4

James MacPhee B00768516

#1. a) 43105 = 580 b) 10110.01012 = 22.3125 c) DADA.B16 = 56026.6 d) 1010.11012 = 10.8125

#2. 1610 = 1016 = 00100002 and 2610 = 328 = 00110102

#3. (+29) = 00011101, (+49) = 00110001, (-29) = 11100011, (-49) = 11001111

(+29) + (-49) = 00011101 + 11001111 = 11101100

(-29) + (+49) = 11100011 + 00110001 = 00010100

(-29) + (-49) = 11100011 + 11001111 = 10110010

(-29) – (-49) = (-29) + (+49) = 11100011 + 00110001 = 00010100

#4. a) -54 b) 53 c) -1 d) -64

#5. a) 101100001101 = 2829 b) 101100001101 = -390 c) 010011110011 = -1267

#6. a) 0111101010100 b) -111.111

c) Smallest: 1111111111111111 = 7.998 Largest: 0111111111111111 = -7.998