```
Vanessa Cushenberry HWI CPB 201

1a) 2''-1 = 1023

b) 2''-1 = 262,143
20001011110012 = 179
 b) 1100,1010, 1001, = CA9
 C) 6469 -> 1010010 -> 1A6
  d) 74528-> TILI 50 10'1010' -> F2A
  e) 1023,0 ->
  f) 743,00
3 a) 1010111012 b) 11011010012 c) 534 8
22222222222 517/25/123/4/32/168421 828'8°
                  5/2/25/123/64/32/168421 8<sup>2</sup>8'8°
                                             (64.5) + (8.3) + (4)
                  512+256+69+32+8+1
 256 1286432168421
                           = 873,0
 256+69+16+8+4+1
                                                = 348,,,
     = 349,0
 d) A6C16 -7 1010 0110 1100
      2,048 10/A 15/4/01/18/30 8/21 = 266810
 4. a 1101
                                    c) 11010
                     1001
    +10111
                         X 101
                                            -10101
                         101101
    100106
                                              0101
```

5a) 000000000 -> 11111111 -> 100000000 6) 10101101 -> 01010010 -> 01010011 2/2=0 6a) 6A10 -> 6A/2=0, 32/2=0, 16/2=0 8/2=0 4/2=0 -4210-7-42/2=0, 21/2=1, 10/2=0 5/2=1 2/2=0 2/1=0 100000 -101010