CSE220 HW 4

```
2. a) -18.3125 \rightarrow -(10010)0101 \rightarrow 1.00100101 \times 2^4 [27+4=13]
                                           0000011
        . 3125 x2 = .625
        .625 72 = 1.25
        . 25 x2 = 0.5 110000011001001010000000000
                     C1928000
        , 5 x 2 = 1.0
   b) 11.25→ 1011,01 → 1.01101×23 127+3=130→
                                        10000010
        , 25 + 2 = . 3
        , 5 x 2 = 1.0
                 41340000
    () 0.078125 \rightarrow 0.000101 \rightarrow 1.0142^{-4} 127-4 = 123 \rightarrow
                                    01111011
      .078125 x 2 = 0.15625
      15625 x 2 = 0.3125
      .625 x 2 = 1.25 [3DA00000
      . 25 x 2 = 0.5
      . 5 x 2 = 1.0
                          128-127=1
 3. a) (0123456+ $1 (564B7 -) 11000000 0,001001000011016001610110
                        -(1,001001000/101000101011)X5,
3-127=-1244
                       = -2.28444433212
 (1)00000001110000000101100000001011
  121- 5 x (1110110100100101010) -
```

= -7.251 02896857 × 10(3) CO123456 + 81 CS 6487

negligible

= (0123456)

7

163-127=36

b) DOBIO361+DIB43203 - (100001101000011001000 600011 - 161-127=34 - 96741646336

-(1.0110001000000110000001) x 234 = -23750112768 - 9674646336 + -23750112768= -120499759104

4. a) 3 F & 60000 + 66860 000 1.775 49 × 10 (68) negligible

 $\frac{1}{2} + \frac{1}{2} = \frac{1.00000005963}{3}$