```
9-13-22
 Evan Meyer
A.
    a. 34
    Signed magnitude
                              3412=1760)
                               17/2=8(1)
      34 = 0100010b
                               8/2=4(0)
     1's complement
                                4/2=2(0)
        39 = 10111016
                                2/2 = 1(0)
                                1/2=0(1)
     2's complement
       34= 10111106
    Exess notation
      34=11000106
    b. -29
     Signed magnitude
                                29/2=14(1)
     -39= 11101016
                                14/2 = 7(0)
                                7/2=3(1)
     1's complement
                                3/2 = 1 (1)
      -29= 00111016
                                1/2 = 0(1)
     2's complement
     -29=(1110101+1=111000116
     Exess Notodian
    -29= Ollo1014
B.
                           Man tissa
                  EXP
```

C=-6

(-0.025-2)=1.6

COSC LLI LAGE

- 0.025=S=

```
0.025 · 2 = 0.5 Exp= e+127=121= (01/1001)
0.05.2=0.1
0.1 .2 = 0.2
0.2.2 = 6.4
0.4.2= 0.8
0.6.2=1.6
0.6.2= 1.2
               Repeat
0.2.2-0.4
0.4.2 = 0.8
0.8.2=1.6
                      mantssa
               Exp
              [100100] [111110010:...
2. [0]0= [0
               3=0
 1010 12 = 505 0
               Exp= 136[100100]
505/2=252/
 252/2=1260
              136/2=680
 126/2=630
               68/2=340
               34/2 = 170
 63/2=31
               17/2 ニ よ 1
 31/2= 15 1
               8/2 = 40
 15/2 = 7 |
               4/2 = 20
 7/2 = 31
               212=10
 3/2=11/
               1/2=0
 1/2 =0
```

```
101160
22/2=110
 11/2 25 1
                       1601
          9/2=41
5/1=21
                  0+110101
          4/2=20
 2/2 = 1 0
                   01101016
          2/2 = 10
 112=0
          1/2=01
2,-33+33=00000006
-33/2=-161 39 0100001
-16/2 = -80 -33 TOILLIL
- 8/2 = -40
              0000000
```

$$2.-33+33=00000000$$

$$-33/2=-161 \quad 330100001$$

$$-16/2=-80 \quad -331011111$$

$$-8/2=-40 \quad 0000000$$

$$-4/2=-20$$

$$-1/2=-10$$

$$-1/2=-61$$

$$3.-6-60=0111106$$
 $-6/2=-30-60/2=300$
 $-3/2=-11-30/2=150-60=111100$
 $-1/2=01-15/2=71-6(25)=100-0100$
 $-1/2=31-1110$
 $3/2=11$
 $1/2=01$

1, 0.333 0.333= 0.010101016 0 333·28=85

$$85/2 = 42(1)$$
 $42/2 = 21(0)$
 $21/2 = 10(1)$
 $10/2 = 5(0)$
 $5/2 = 2(1)$
 $2/2 = 1(0)$
 $1/2 = 0(1)$

$$0.845 \cdot 2^8 = 26$$
 $216/2 = 108(0)$
 $108/2 = 54(0)$
 $54/2 = 27(0)$
 $27/2 = 13(1)$
 $13/2 = 6(1)$
 $6/2 = 3(0)$

$$(1 \times 2^{0}) = 1$$

 $(1 \times 2^{0}) = 0.015625$
 $(1 \times 2^{0}) = 0.015625$

