## Comparch HW3

1.) 
$$001011011_{2} = 91_{10}$$
  
 $+011000110_{2} = 66_{16}$   
 $0100100001_{2} = 289_{10}$ 

3.)01100.0101 = 12.312510  

$$+0001.1000 = 0110_{1202}$$
  
 $1101.1101 = [13.812510]$ 

4.) 
$$0101.110 = 5.75_{10}$$
  
 $+1000.111 = -7.125_{10}$   
 $1110.101 = -1.375_{10}$ 

$$5.) 01001_{2} = 9_{10}$$

$$\frac{\times 0011_{2}}{1001} = 3_{10}$$

$$\frac{10010}{11011_{2}} = 27_{10}$$

$$7.)01001.100_{2} = 9.5_{.0}$$
 $000001001100$ 
 $000000000$ 
 $010000000$ 
 $010000001100$ 

8.) When 
$$110.11_{2} = -1.25_{10}$$

$$\begin{array}{c} \times 011.10 = 3.5_{10} \\ \hline 1011101100 \\ \hline 1011011010 = -4.375_{10} \\ \hline \end{array}$$

 $01001.100_{2} = 9.5_{.6}$   $00010.101_{2} = 2.625_{.6}$  0100110000 01001100000 010011000000  $011000.1111000_{2} = 24.9375_{.0}$