Phillip Mai Essay Quiz 63/4=0.984375 0 5,75 0,984378x2=1,96878 5) 2r1 2) Iro 0.96875x2=1.9375 7 101.111 0.9375 x2 = 1.875 0.875 x2 = 1.75 0.75×2= 1.5 0.75×2=1.5=0,5×2=1.0 0,5x2 = 1,0 20.111111 9.8125 214-1 4/200 3/1001.1101 2) 100 0.8125x2=1.625 ->.625x2=1.25 -> 0.28 x2=0.5 x2=1.0 34.890625 3411700 ->00100010.111001->1.00010111001>25 127+5=132 =10000100 sign exp 200 110 orl

0,890625x2=1.78125=0,78125=2=1,8625=0,5625x2=1,125=5,125 x2=0,75=0,5=1.0

(3)
$$\frac{100}{0}$$
 $\frac{111011}{000}$ $\frac{1000}{000}$ $\frac{111011}{000}$ $\frac{1000}{000}$ $\frac{10000}{000}$ $\frac{1000}{000}$ $\frac{1000}{000}$ $\frac{1000}{000}$ $\frac{1000}{000}$ $\frac{1000}{000}$ $\frac{1000}{000}$ $\frac{1000}{000}$ $\frac{1000}{000}$

The denormalized numbers in floating point respresentation is a value that have a significand with a leading digit of zero. Basically, if a number bias is 2'26 to 2'46 it denormalized and hormalized if it 2'26 to 2'27.

To convert decimal to binary we use denormalized for bigger numbers and normalized for smaller numbers