Worksheet
1/13/2020

1. Convert 211 from decimal system to binary system.

$$
\text { See Example } 1 \text { in lecture } 5
$$

2. Convert 6.13 from decimal system to binary system. Then round your answer to 4 digits after the binary point.

$$
6.13=\underbrace{6}_{\substack{(100)_{2} \\\left(E_{\text {ample }}(1)\right.}}+\underbrace{0.13}_{\left.(0.001 \ldots . .)_{2}\right)}
$$

3. Convert 101.01011 from binary system to decimal system.

$$
\sin _{4}^{2}+\underbrace{2^{0}}_{1}+\underbrace{2^{-2}}_{0.25}+2_{-}^{2^{-4}}+\underbrace{-5}=\cdots
$$

4. Perform the multiplication $1.101 \times 1.111$ in binary system. Then round your answer to 3 digits after the binary point.

See the last example in Lecture $S$.

