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P20-0613
Sec 5A
Numerical Computing

ASSIGNMENT 3

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|---|---|
| P20-0613 |  Castelli |
| Date _____ | MTWTFSS |
| Task | |
| 100.875 | |
| <u>Step 1</u> Convert into binary | |
| 1100100.111 | $\therefore 64 \ 32 \ 16 \ 8 \ 4 \ 2 \ 1$ 100 = 1 0 1 0 0 1 0 0 |
| <u>Step 2</u> Find Exponent (Biased) (2^8-1) | |
| 1100100.111 | = 6 + 127 = (133) ₁₀ = 10000101 |
| <u>Step 3</u> Find Mantissa | |
| 1100100.111 → | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> 010000101100100.1100000000000000 </div> |