

# NUMERICAL METHODS I

## Quizz 01



United Nations  
Educational, Scientific and  
Cultural Organization



ICTP - East African Institute  
for Fundamental Research  
under the auspices of UNESCO

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# Quizz # 1

1. Express **-327** using 12 bits in the sign magnitude representation, the 1's complement representation and the 2's complement representation.
2. Provided that the IEEE-754 32-bit floating point representation pattern is 1 00000000 011 0000 0000 0000 0000 0000, what's the number?
3. Provided that the IEEE-754 32-bit floating point representation pattern is 0 10000010 110 0000 0000 0000 0000 0000, what's the number?

## Instructions:

- Duration: 15 mins
- Send your answer to me: [sndengue@eaifr.org](mailto:sndengue@eaifr.org) before the time is elapsed.
- In your email specify your full name and when available your registration number.