2 July 2018 group task in calculus:

Edited at 8am 2 July 2018.

1. Explain series convergence tests.

https://en.wikipedia.org/wiki/Convergence\_tests

1.2. Calculate the error of your Euler method for T = 90, K = 9000.

2. What is truncation error?

3. Give the main numerical integration equations.

4. Explain the main integration error bound equations.

5. What is Euler method for numerical solving of differential equations?

https://en.wikipedia.org/wiki/Numerical\_methods\_for\_ordinary\_differential\_equations

6. Explain quaternion.

https://en.wikipedia.org/wiki/Quaternion

7. Solve Jindoh Riddle problem.

http://dishonored.wikia.com/wiki/The\_Jindosh\_Riddle

8. What is Zeta function?

https://en.wikipedia.org/wiki/Riemann\_zeta\_function

9. Explain Bessel function.

https://en.wikipedia.org/wiki/Bessel\_function

10. Give the series convergence tests.

11. Explain the Integral Transforms.

12. Which team showed the most unexpected result in 2018 Soccer World Cup?

https://www.fifa.com/worldcup/matches/?#knockoutphase

13. How many times gravity, electromagnetism, and nuclear forces strengths are different in our Universe? Give the order from the weakest to the strongest.

https://www.quora.com/What-is-the-ratio-between-the-strength-of-strong-nuclear-force-electromagnetic-force-weak-nuclear-force-and-gravitational-force

14. What is the gradient of the Fine Structure Constant alpha in our Universe?

https://www.youtube.com/watch?v=d\_QtkFu6l7Y&t=148s

15. Try to apply for all grants, scholarships, fellowships, etc. in embassies of USA, Canada, Europe, Australia, Japan, etc.