

LEARN MATHEMATICS DO MATHEMATICS

ASSIGNMENT 5 - NUMERICAL TECHNIQUE & OR

Q.1 Define 'truncation error'.

Q2. Evaluate $\sqrt[3]{31}$ corrected to four decimal places by Newton-Raphson method.

Q3. Use regula-false method find 1st root of $x^2 - 2x + 1 = 0$

Q 4 .using Simpson 3/8 rule find $\int_0^6 \frac{dx}{1+x^2}$.

Q5 use north west corner rule solve the transportation problem

TO

		I	II	III	IV	SUPPLY
FROM	A	14	25	45	5	6
	B	65	25	35	55	8
	C	25	3	65	15	16
DEMAND		4	7	6	13	30

Q6 Explain meaning of linear programming.

Q7 what is slack variable.

Q8 Define surplus variable.

Q10. The points where the Newton Raphson method fails are called?

Q11. The convergence of which of the following method depends on initial assumed value?

Q12.Explain optimal solution.

Q13. Explain unbounded solution.