JACOBI METHOD - ITERATIVE METHOD

Q:- 27x +6y-2-85 6x +15y +22=72 x +y +842=110

101

1271>161+111 =>121>1x1+121 1151>161+131=>141>1x1+151

for given system of equation.

272 +67-5=85

x = -64+5+82

6x + 15y + 22 = 72

J= -6x-25+73

x+4+2+5 = 110

Z=-X-y+110

x0=0, \$0=0, 20=0

$$\frac{2}{2^{2}} = \frac{1}{2} \left(-\frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{2}$$

Fourth Veration

Fifth Iteration

Seventh Heration x+ = 2.426 47 = 3.574 38 77= 1.926 Sixth and seventh Heration give same values therefore we can stop the iteration. Hence the solution of equation is X=2.426 ₹=1.926 X.