

Assignment # 2

Q No: 1 $x_1 + 3x_2 + 5x_3 - 4x_4 = 1$
 $x_1 + 3x_2 + x_3 - 2x_4 + x_5 = -1$
 $x_1 - 2x_2 + x_3 - x_4 - x_5 = 3$
 $x_1 - 4x_2 + x_3 + x_4 - x_5 = 3$
 $x_1 + 2x_2 + x_3 - x_4 + x_5 = -1$

- (i) Solve it by Gauss elimination method.
and also by Gauss Jordan method and
(ii) Solve it by inverse method $X = A^{-1}B$

Q No: 2 Solve The System by Cramer's Rule

(i) $x_1 + x_2 + x_3 + x_4 = 6$
 $2x_1 - x_3 - x_4 = 4$
 $3x_3 + 6x_4 = 3$
 $x_1 - x_4 = 5$

(ii)

| | | | | |
|---|-----|-------|-------|-------|
| 1 | x | x^2 | x^3 | |
| 1 | 2 | 2^2 | 2^3 | |
| 1 | 3 | 3^2 | 3^3 | $= 0$ |
| 1 | 4 | 4^2 | 4^3 | |

Solve it for finding the values of x .