$$A = \begin{bmatrix} 1 & 2 & 2 \\ 3 & 7 & 9 \\ -1 & -4 & -7 \end{bmatrix}$$

$$A^{-1} = \begin{bmatrix} -13 & 6 & 4 \\ 12 & -5 & -3 \\ -5 & 2 & 1 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 1 & 9 \\ 1 & 1 & 9 \end{bmatrix} \begin{bmatrix} -13 & 6 & 4 \\ 12 & -5 & -3 \\ -5 & 2 & 1 \end{bmatrix} = \begin{bmatrix} 9 & 3 & 5 \end{bmatrix}$$

Sec 1-d 16 A= 35 [11 21) 64 112 25 50 29 53 23 06 40 75 55 92 = (-5 2) [11 2] [-5 2] = [8 1] [6 4 112] [3 -1] = [16 16] [25 50] [ = [25 0] [29 53] [3 -1] = [14 5] [23 46] [-5 2] = [23 0] [40 25] [-5 2] = [25 5] [55 92] [-5 2] =[1 18] 8 1 16 16 25 0 14 5 23 0 25 5 1 18 HAPPY-NEW-YEAR.