1×3 Matrix for MEET ME MONTAY

$$u \cdot v = -3$$
 $v \cdot v = 79$

($u + 2v$) · (3 atv) distribution

 $3u \cdot u + u \cdot v + 3u \cdot 2v + 2v \cdot v$
 $39(3) + (-3) + 6(u \cdot v) + 2(79)$
 -3
 $-19 + 158$
 $295 - 21$
 -254
 -254

If u and vin W, cut Vin W If u in W, scalr cou in W

Cryptography

 $0 = _{-}$ 14 = N1 = A15 = 0 $A = \begin{bmatrix} 1 & -2 & 2 \\ -1 & 1 & 3 \\ 1 & -1 & -4 \end{bmatrix}$ 2 = B16 = P17 = 03 = C4 = D18 = R5 = E19 = S20 = T6 = F7 = G21 = U $A = \begin{bmatrix} 1 & -2 & 2 \\ -1 & 1 & 3 \\ 1 & -1 & -4 \end{bmatrix}$ 8 = H22 = V9 = I 23 = W10 = J 24 = X25 = Y11 = K25 = 1 26 = Z Energyt ROSES ARE RED R O S ES _ A R E _ RE D _ RE [18 15 19] [5 19 0] [1 18 5] [0 18 5] [4 00] 12 = L13 = M $\begin{bmatrix} 18 & 15 & 19 \end{bmatrix} \begin{bmatrix} 1 & -2 & 2 & 7 \\ -1 & 1 & 3 & 7 \end{bmatrix} = \begin{bmatrix} 22 & -40 & 5 \end{bmatrix}$ [519.0][-1,-237=[-14967] [1185][-1-227=[-121136] $\begin{bmatrix} 0 & 18 & 5 \end{bmatrix} \begin{bmatrix} -\frac{1}{1} & -\frac{2}{3} & \frac{2}{3} \\ -\frac{1}{1} & -\frac{1}{3} & \frac{3}{3} \end{bmatrix} = \begin{bmatrix} -13 & 13 & 34 \end{bmatrix}$ [400][-1-22]=[4-88]

$$\begin{bmatrix} 18 & 15 & 19 \end{bmatrix} \begin{bmatrix} 1 & -2 & 2 \\ -1 & 13 \end{bmatrix} = \begin{bmatrix} 22 & -40 & 5 \end{bmatrix}$$

$$\begin{bmatrix} 5 & 19 & 0 \end{bmatrix} \begin{bmatrix} -1 & -2 & 2 \\ 1 & -1 & -4 \end{bmatrix} = \begin{bmatrix} -14 & 9 & 64 \end{bmatrix}$$

$$\begin{bmatrix} 1 & 18 & 5 \end{bmatrix} \begin{bmatrix} -1 & -2 & 2 \\ 1 & -1 & -4 \end{bmatrix} = \begin{bmatrix} -12 & 11 & 34 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 18 & 5 \end{bmatrix} \begin{bmatrix} -1 & -2 & 2 \\ 1 & -1 & -4 \end{bmatrix} = \begin{bmatrix} -13 & 13 & 34 \end{bmatrix}$$

$$\begin{bmatrix} 0 & 18 & 5 \end{bmatrix} \begin{bmatrix} -1 & -2 & 2 \\ 1 & -1 & -4 \end{bmatrix} = \begin{bmatrix} -13 & 13 & 34 \end{bmatrix}$$

$$\begin{bmatrix} 4 & 00 \end{bmatrix} \begin{bmatrix} -1 & -2 & 2 \\ 1 & -1 & -4 \end{bmatrix} = \begin{bmatrix} 4 & -8 & 8 \end{bmatrix}$$

$$22 & -40 & 5 & -14 & 9 & 67 & -12 & 11 & 36$$

$$-13 & 34 & 4 & -8 & 8$$

$$\begin{bmatrix} -1 & 0.8 & 1 & 2.0 \\ -1 & 1 & 3 & 0.10 \end{bmatrix} - 2R_1R_2R_2$$

$$\begin{bmatrix} -1 & 0.8 & 1 & 2.0 \\ -1 & 3 & 0.10 \end{bmatrix} - 2R_2R_2R_3R_3$$

$$\begin{bmatrix} -1 & 0.8 & 1 & 2.0 \\ -1 & 3 & 0.10 \end{bmatrix} - R_2R_3R_3$$

$$\begin{bmatrix} -1 & 0.8 & 1 & 2.0 \\ -1 & 3 & 0.10 \end{bmatrix} - R_3R_3$$

$$\begin{bmatrix} -1 & 0.8 & 1 & 2.0 \\ -1 & 3 & 0.10 \end{bmatrix} - R_3R_3$$

$$\begin{bmatrix} -1 & 0.8 & 1 & 2.0 \\ -1 & 3 & 0.10 \end{bmatrix} - R_3R_3$$

$$\begin{bmatrix} -1 & 0.8 & 1 & 2.0 \\ -1 & 3 & 0.10 \end{bmatrix} - R_3R_3$$

$$\begin{bmatrix} -1 & 0.8 & 1 & 2.0 \\ -1 & 3 & 0.10 \end{bmatrix} - R_3R_3$$

$$\begin{bmatrix} -1 & 0.8 & 1 & 2.0 \\ -1 & 3 & 0.10 \end{bmatrix} - R_3R_3$$

$$\begin{bmatrix} -1 & 0.8 & 1 & 2.0 \\ -1 & 3 & 0.10 \end{bmatrix} - R_3R_3$$

$$\begin{bmatrix} -1 & 0.8 & 1 & 2.0 \\ -1 & 0.1 & 0.11 \end{bmatrix} - \begin{bmatrix} -1 & 0.8 \\ -1 & 0.8 \end{bmatrix} - \begin{bmatrix} -1 & 0.$$

$$22 - 40 5 - 14 9 67 - 12 11 36$$

$$-13 13 34 4 - 8 8$$

$$A^{-1} = \begin{bmatrix} -1 & +0 & -87 \\ -1 & -6 & -1 \end{bmatrix}$$