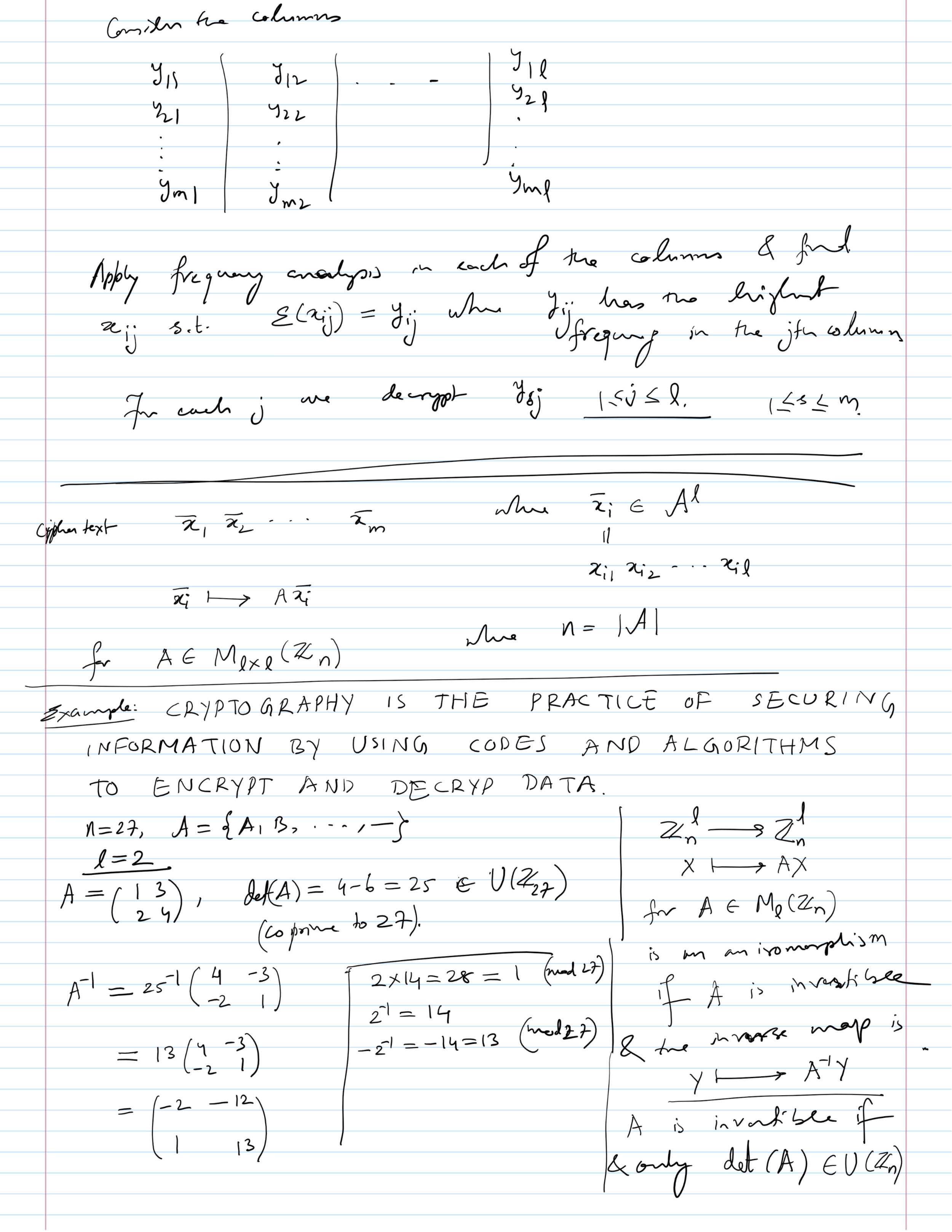
except the Cost one each of the EZy for nEN $\overline{y}_i = \overline{x}_i + \overline{k}$ where $\overline{z}_i = (x_i, x_{i_2}, x_{i_2}, x_{i_2}, x_{i_2})$ $g = \overline{z_1} + \overline{k}$ $\frac{1}{y_{2}} = \frac{1}{\chi_{2}} + \frac{1}{\chi_{3}}$ $\sqrt{y} = \overline{\chi}_{i+1} + \lambda_i$ for $\leq i$ ANT -> pass key-Example: k = $A = \left\{A_1B_1 - \cdot \cdot \cdot_2Z_2\right\}$ plaintext Te = WE_DISAGREE ANTWE-DISAG Ciphun text y = WRSZMRD $\bar{\chi}_i = \bar{y}_i - \bar{k}$ (Vizene) Decryption: $\overline{z_1} = \overline{z_1} - \overline{k}$ Ja Anto Kay ciphin: $\frac{1}{2} = \frac{1}{2} - \frac{1}{2}$ · = 5/- 2; 2i+1 Encryption Suppose the ciphen text obtained by Vigornere C1 = \$11 \$12 ... \$11 Cm = Jmi Jm2 ... Jomp We wante to decrypt i) with out knowing the pass key k Suppose we lever the luft of k, say I.



$$N(phn+x+) = 2-17-24-15-19-14-6-$$

$$\mathcal{E}\begin{pmatrix} 2\\17 \end{pmatrix} = \begin{pmatrix} 1&3\\2&4 \end{pmatrix}\begin{pmatrix} 2\\17 \end{pmatrix} = \begin{pmatrix} 2+51\\4+18 \end{pmatrix} = \begin{pmatrix} -1\\-9 \end{pmatrix} = \begin{pmatrix} 26\\18 \end{pmatrix}$$

$$\frac{\mathcal{E}(cR) = -S}{\mathcal{E}(1S)} = \begin{pmatrix} 1&3\\2&4 \end{pmatrix}\begin{pmatrix} 2&4\\15 \end{pmatrix} = \begin{pmatrix} 2&4\\1S \end{pmatrix}$$

$$\mathcal{E}\begin{pmatrix} 2&1\\15 \end{pmatrix} = \begin{pmatrix} 1&3\\2&4 \end{pmatrix}\begin{pmatrix} 2&4\\15 \end{pmatrix} = \begin{pmatrix} 2&4\\15 \end{pmatrix}$$

$$\mathcal{E}\begin{pmatrix} 2&1\\15 \end{pmatrix} = \begin{pmatrix} 1&3\\2&4 \end{pmatrix}\begin{pmatrix} 2&4\\15 \end{pmatrix} = \begin{pmatrix} 2&4\\15 \end{pmatrix}$$

$$\mathcal{E}\begin{pmatrix} 2&1\\15 \end{pmatrix} = \begin{pmatrix} 1&3\\2&4 \end{pmatrix}\begin{pmatrix} 2&4\\15 \end{pmatrix} = \begin{pmatrix} 1&3\\2&4 \end{pmatrix}$$

$$\mathcal{E}\begin{pmatrix} 2&1\\15 \end{pmatrix} = \begin{pmatrix} 1&3\\2&4 \end{pmatrix} = \begin{pmatrix} 2&4\\1&1 \end{pmatrix}$$

$$\mathcal{E}\begin{pmatrix} 2&1\\1&1&1 \end{pmatrix} = \begin{pmatrix} 1&3\\1&1&1 \end{pmatrix}$$

$$\mathcal{E}\begin{pmatrix} 2&1\\1&1&1 \end{pmatrix}$$

$$\mathcal{E}\begin{pmatrix} 2&1\\1&1&1 \end{pmatrix}$$

$$\mathcal{E}\begin{pmatrix} 2&1\\1&1&1 \end{pmatrix}$$

$$\mathcal{E}\begin{pmatrix} 1&1\\1&1&1 \end{pmatrix}$$

$$\mathcal{E}\begin{pmatrix} 1&1&1&1&1\\1&1&1&1 \end{pmatrix}$$

$$\mathcal{E}\begin{pmatrix} 1&1&1&1&1&1\\1&1&1&1&1\\1&1&1&1&1\\1&1&1&1&1\\1&1&1&1&1\\1&1&1&1&1\\1&1&1&1&1\\1&1&1&1&1\\1&1&1&1&1\\1&1&1&1&1\\1&1&1&1&1\\1&1&1&1&1\\1&1&1&1&1&1\\1&1&1&1&1&1\\1&1&1&1&1&1\\1&1&1&1&1&1\\1&1&1&1&1&1\\1&1&1&1&1&1\\1&1&1&1&1&1\\1&1&1&1&1&1\\1&1&1&1&1&1&1\\1&1&1&1&1&1&1\\1&1$$