9 If A=OR is the full of, what is cholorly of
$$\hat{A}^{1}\hat{A}$$
 $\hat{A}^{1}\hat{A} = (\hat{B}^{1}\hat{R})^{T}\hat{A}\hat{R} = \hat{R}^{T}\hat{A}^{T}\hat{A}\hat{R} = \hat{R}^{T}\hat{A}^{T}\hat{A}\hat{R} = \hat{R}^{T}\hat{A}^{T}\hat{A}\hat{R} = \hat{R}^{T}\hat{A}^{T}\hat{A}\hat{R} = \hat{R}^{T}\hat{A}^{T}\hat{A}\hat{R} = \hat{R}^{T}\hat{A}^{T}\hat{A}\hat{A}^{T} = \hat{A}\hat{A}\hat{A}^{T}\hat{A}^{T}\hat{A}^{T} = \hat{A}\hat{R}^{T}\hat{A}\hat{A}^{T}\hat{A}^{T} = \hat{A}\hat{R}^{T}\hat{A}^{T}\hat{A}^{T}\hat{A}^{T} = \hat{A}\hat{R}^{T}\hat{A$

(a)
$$B = U \subseteq V^T$$
 $B^T = V \subseteq U^T = 2$
 $A = \begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}$
 $A = \begin{bmatrix} 1 & 1 & 1 \\ 2 & 2 & 1 \end{bmatrix}$
 $A = \begin{bmatrix} 1 & 1 & 1 \\ 2 & 2 & 1 \end{bmatrix}$
 $A = \begin{bmatrix} 1 & 1 & 1 \\ 2 & 2 & 1 \end{bmatrix}$

cb)

$$B^{T} = \frac{1}{2}\begin{bmatrix} 1 & 1 & 1 \\ 1 & 1 & 1 \end{bmatrix}\begin{bmatrix} 2 & 0.02 \\ 0.01 \end{bmatrix} \xrightarrow{b} \begin{bmatrix} \frac{1}{52} & 1 & \frac{1}{52} \\ \frac{1}{52} & 1 & \frac{1}{52} \end{bmatrix} \xrightarrow{\vdots} = ADC^{T}$$

compare $z = A^{T}b = \frac{1}{2}\begin{bmatrix} 1 & 1 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{bmatrix}\begin{bmatrix} 2 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{bmatrix}\begin{bmatrix} 2 & 1 & 1 \\ 1 & 1 & 1 & 1 \end{bmatrix} = \frac{1}{2}\begin{bmatrix} 2 & 1 & 1 \\ 2 & 2 & 1 \end{bmatrix} = \begin{bmatrix} 1 & 1 & 1 \\ 2 & 1 & 1 \end{bmatrix}$

Solve $\begin{bmatrix} 2 & 0.02 & 0.01 \\ 0.02 & 0.01 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 1 & 0 & 1 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 0 & 1 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 0 & 1 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 0 & 1 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 0 & 1 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 0 & 1 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 0 & 1 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 0 & 1 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 0 & 1 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 0 & 1 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 0 & 1 \end{bmatrix}$ $y = \begin{bmatrix} 1 & 0.5 \\ 0 & 1 \end{bmatrix}$

$$X = Cy = \frac{1}{52} \begin{bmatrix} \frac{1}{52} & \frac{1}{52} & \frac{1}{52} \\ \frac{1}{52} & 0 & -1 \\ \frac{1}{52} & -1 & \frac{1}{52} \end{bmatrix} \begin{bmatrix} 0.5 \\ 0 \\ 0 \end{bmatrix} = \frac{1}{52} \begin{bmatrix} \frac{1}{52} + \frac{100}{52} \\ \frac{1}{52} - 100 \end{bmatrix}$$