$$: S = A \left(\begin{bmatrix} 0 \\ -50 \\ 50 \end{bmatrix} \begin{bmatrix} 0 \\ -50 \end{bmatrix} \begin{bmatrix} 0 \\ -50 \end{bmatrix} \begin{bmatrix} 50 \\ -50 \end{bmatrix} \begin{bmatrix} 5$$

where A is the Area =
$$\frac{1}{2}bh = \frac{1}{2}(0.02n)(0.02n)$$

= $\frac{1}{2}(0.02n)(0.02n)$

$$S = 200 \mu \left[\begin{array}{ccc} 0 & 0 & 0 \\ 0 & 2500 & -2500 \\ 0 & -2500 & 2500 \end{array} \right] + \left[\begin{array}{cccc} 2500 & -2500 & 0 \\ -2560 & 2500 & 0 \\ 0 & 0 & 0 \end{array} \right] \right)$$

$$S = 200\mu \begin{cases} 2500 - 2500 & 6 \\ -2500 & 5000 - 2500 \end{cases}$$

$$S = \begin{cases} 0.5 & -0.5 & 0 \\ -0.5 & 1 & -0.5 \\ 0 & -0.5 & 0.5 \end{cases}$$

TRIANGLE 4-5-6

$$\begin{bmatrix}
U_{1} \\ U_{1} \\ U_{2} \\ U_{2} \\ \end{bmatrix} = \begin{bmatrix}
1 & 0.02 & 0.02 \\ 1 & 0.02 & 0
\end{bmatrix} \begin{bmatrix} 0 \\ 0 \\ 0 \\ 0 \end{bmatrix}$$

$$\begin{bmatrix}
A_{1} \\ 0 \\ 0 \end{bmatrix} = \begin{bmatrix}
-1 & 1 & 1 \\ 50 & 50 & 0 \\ 1 & -50 & 0
\end{bmatrix} \begin{bmatrix} U_{1} \\ V_{2} \\ V_{2} \\ 0 \end{bmatrix}$$

$$\begin{bmatrix}
A_{1} \\ X_{3} \\ X_{4}
\end{bmatrix} = \begin{bmatrix}
-1 & 56 & 50 \\ 1 & -50 & 0 \\ 1 & 0 & -50
\end{bmatrix} \begin{bmatrix}
1 \\ X \\ Y
\end{bmatrix}$$

$$\begin{bmatrix}
A_{1} \\ X_{3} \\ X_{4}
\end{bmatrix} = \begin{bmatrix}
-1 & 56 & 50 \\ 1 & -50 & 0 \\ 1 & 0 & -50
\end{bmatrix} \begin{bmatrix}
1 \\ X \\ Y
\end{bmatrix}$$

$$\begin{bmatrix}
A_{1} \\ X_{3} \\ X_{4}
\end{bmatrix} = \begin{bmatrix}
-1 & 56 & 50 \\ 1 & -50 & 0 \\ 1 & 0 & -50
\end{bmatrix} \begin{bmatrix}
1 \\ X \\ Y
\end{bmatrix}$$

$$\begin{bmatrix}
A_{1} \\ X_{3} \\ X_{4}
\end{bmatrix} = \begin{bmatrix}
-1 & 56 & 50 \\ 1 & -50 & 0 \\ -50 & 0
\end{bmatrix} \begin{bmatrix}
1 \\ X \\ Y
\end{bmatrix}$$

$$\begin{bmatrix}
A_{1} \\ X_{3} \\ Y
\end{bmatrix}$$

$$\begin{bmatrix}
A_{1} \\ X_{4} \\ Y
\end{bmatrix}$$

$$\begin{bmatrix}
A_{1} \\ Y_{4} \\$$

$$S_{dis} = \begin{cases} 0.5 - 0.5 & 0 & 0 & 0 & 0 \\ -0.5 & 1 & -0.5 & 0 & 0 & 0 \\ 0 & -0.5 & 0.5 & 0 & 0 & 0 \\ 0 & 0 & 0 & 1 & -0.5 & -0.5 \\ 0 & 0 & 0 & -0.5 & 0.5 & 0 \\ 0 & 0 & 0 & -0.5 & 0 & 0.5 \end{cases}$$

$$= \begin{bmatrix} 1600060 \\ 010000 \\ 001001 \\ 0 & -0.5 \\ 0 & -0.5 \\ 0 & -0.5 \end{bmatrix} \begin{bmatrix} 0.5 - 0.5 \\ -0.5 & 1 - 0.5 \\ 0 & -0.5 & 0.5 \\ -0.5 & 0 & 0.5 \end{bmatrix}$$

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$$S_{\text{global}} = \begin{bmatrix} 1 & -0.5 & 0 & -0.5 \\ -0.5 & 1 & -0.5 & 0 \\ 0 & -0.5 & 1 & -0.5 \\ -0.5 & 0 & -0.5 & 1 \end{bmatrix}$$