$$Z \qquad \qquad \frac{f}{\det J_f^{-1}} = \begin{vmatrix} 2 & 0 \\ 0 & 2 \end{vmatrix}^{-1} = \frac{1}{4} \qquad \qquad X$$

$$\det J_f^{-1} = \begin{vmatrix} 2 & 0 \\ 0 & 2 \end{vmatrix}^{-1} = \frac{1}{4}$$

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$$\cot J_f^{-1} = \frac{1}{4}$$