

$$|\int_{y_{1}}^{x} = u_{1}x - y + 2 \implies \sqrt{f} = (u_{x} - y + 2, 2y - x + 1)$$

$$|\int_{y_{1}}^{y_{2}} = 2y - x + 1 \implies \sqrt{f} = (u_{x} - y + 2, 2y - x + 1)$$

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$$x_{k+1} = x_k - t_k \nabla f(x_k)$$

 $x_k = \begin{pmatrix} -1 \\ -1 \end{pmatrix} - 1/4 \begin{pmatrix} -1 \\ 0 \end{pmatrix} = \begin{pmatrix} -1 \\ -1 \end{pmatrix} - \begin{pmatrix} -1/4 \\ 0 \end{pmatrix} = \begin{pmatrix} -3/4 \\ -1 \end{pmatrix}$