$$k(x,y) = (x-3)y+2 \begin{pmatrix} 1 & -3 \\ -3 & 1 \end{pmatrix} \begin{pmatrix} x-3 \\ y-2 \end{pmatrix} = +0$$

$$k \det \begin{pmatrix} 1-2 & -3 \\ -3 & 1-2 \end{pmatrix} = \begin{pmatrix} 1-2 & 2-4 \\ 2-2 & 2-8 \\ 2-2 & 2-8 \end{pmatrix} = \begin{pmatrix} 1-2 & 2-4 \\ 2-2 & 2-8 \end{pmatrix}$$

$$= 2^2 - 22 - 8 = \begin{pmatrix} 2-4 \\ 2-2 \end{pmatrix} \begin{pmatrix} 2+2 \\ 2-2 \end{pmatrix}$$

$$= 2^2 - 2^2 - 8 = \begin{pmatrix} 2-4 \\ 2-2 \end{pmatrix} \begin{pmatrix} 2-4 \\ 2-2 \end{pmatrix}$$

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

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

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