Scratch

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4:53 PM

$$\begin{vmatrix} a & b \\ x & y \end{vmatrix} = wf \qquad \begin{vmatrix} a & b \\ z & w \end{vmatrix} = wg$$

$$ay - bx = wf$$

$$y = \frac{bx + wf}{a} \qquad w = \frac{bz + wg}{a}$$

$$\begin{vmatrix} x & y \\ z & w \end{vmatrix} = \begin{vmatrix} x & \frac{bx+wf}{a} \\ z & \frac{bz+wg}{a} \end{vmatrix} = \frac{w}{a} \begin{vmatrix} x & f \\ z & g \end{vmatrix}$$

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perhaps

$$\begin{vmatrix} a & b \\ x & y \end{vmatrix} = abwf, \text{ etc.?}$$