

[29] By Cramer's rule, the solution can be found as follows.

$$E = \det \begin{bmatrix} c_1 & b_1 \\ c_2 & b_2 \end{bmatrix} = \det \begin{bmatrix} 23 & 4 \\ 70 & -5 \end{bmatrix} = -395$$

$$F = \det \begin{bmatrix} a_1 & c_1 \\ a_2 & c_2 \end{bmatrix} = \det \begin{bmatrix} 7 & 23 \\ 11 & 70 \end{bmatrix} = 237$$

$$D = \det \begin{bmatrix} a_1 & b_1 \\ a_2 & b_2 \end{bmatrix} = \det \begin{bmatrix} 7 & 4 \\ 11 & -5 \end{bmatrix} = -79$$

The solution is computed by

$$x = \frac{E}{D} = \frac{-395}{-79} = 5 \text{ and } y = \frac{F}{D} = \frac{237}{-79} = -3.$$

The solution is $(5, -3)$.