$$Ax+By=C$$
$$Dx^2+Ex+Fy=G$$

$$y=(C-Ax)/B$$

$$\hookrightarrow Dx^2+Ex+\frac{F}{B}\left((C-Ax)\right)=G$$

$$Dx^2+\left(E-\frac{AF}{B}\right)x+\left(\frac{FC}{B}-G\right)=0$$

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$$x_{1,2}=\left[\frac{AF}{B}-E\right]\pm\sqrt{\left[\frac{AF}{B}-E\right]^2-4D\left[\frac{FC}{B}-G\right]}\Big/2D$$

$$y_{1,2}=C-A[x]/B$$

$$*\ x_1\to y_1\ \wedge\ x_2\to y_2$$

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$$Ax+By=C$$
$$Dx+Ey=F$$

$$y=(C-Ax)/B$$

$$\hookrightarrow Dx+E\left(\frac{C-Ax}{B}\right)=F$$

$$\left(D-\frac{EA}{B}\right)x=F-\frac{EC}{B}$$

$$x=\frac{F-\frac{EC}{B}}{D-\frac{EA}{B}}$$

$$y=\frac{C-A[x]}{B}$$