General equation of Lines through the Intersection of Two given Lines.

If equation of two lines $P=a_1x+b_1y+c_1=0$ and $Q=a_2x+b_2y+c_2=0$, then the equation of the lines passing through the point of intersection of these lines is $P+\lambda\,Q=0$ or $a_1x+b_1y+c+\lambda(a_2x+b_2y+c_2)=0$; Value of λ is obtained with the help of the additional information given in the problem.