

$$u_{|p|,|\tilde{p}|+1}x_{|\tilde{p}|+1}+\ldots+u_{|p|,|p|}x_{|p|}=u_{|p|,|\tilde{p}|+1}f_{|\tilde{p}|+1}+\ldots+u_{|p|,|p|}f_{|p|}.$$