$$(\mathbf{X}_f \ \mathring{,}\ \mathbf{X}_g) \ \mathring{,}\ \mathbf{X}_h = \mathbf{X}_f \ \mathring{,}\ \mathbf{X}_g \ \mathring{,}\ \mathbf{X}_h = \mathbf{X}_f \ \mathring{,}\ (\mathbf{X}_g \ \mathring{,}\ \mathbf{X}_h)$$