Lemma 4

Let D_1, D_2 be clauses and σ a ground substitution, such that
the selection function on $D_1\sigma$ and $D_2\sigma$ agrees with the selection funtion on D_1 and D_2.

- If

$$\frac{D_1\sigma \quad D_2\sigma}{D}$$

by Ordered Binary Resolution, then there is

$$\frac{D_1 \quad D_2}{D'}$$

by Ordered Binary Resolution and a ground substitution γ, $D'\gamma = D$;

- If

$$\frac{D_1\sigma}{D}$$

by Ordered Positive Factoring, then there is

$$\frac{D_1}{D'}$$

by Ordered Positive Factoring and a ground substitution γ, $D'\gamma = D$.