

## Exercise 5.3 Deleting a term using patterns

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1 {a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r,s,t,u#}::Indices(position=independent).
2
3 expr := A_{a b} B^{a b} + A_{a b} A_{c d} B^{a b} B^{c d} - C_{a b} B^{a b}. # cdb (ex-0503.100,expr)
4
5 zoom      (expr, $A_{a b} A_{c d} Q???) # cdb (ex-0503.101,expr)
6 substitute (expr, $A_{a b} -> 0$) # cdb (ex-0503.102,expr)
7 unzoom    (expr) # cdb (ex-0503.103,expr)

```

$$\text{ex-0503.100} := A_{ab}B^{ab} + A_{ab}A_{cd}B^{ab}B^{cd} - C_{ab}B^{ab}$$

$$\text{ex-0503.101} := \dots + A_{ab}A_{cd}B^{ab}B^{cd} + \dots$$

$$\text{ex-0503.102} := \dots$$

$$\text{ex-0503.103} := A_{ab}B^{ab} - C_{ab}B^{ab}$$