Exercise 2.7 Selective kill

```
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   \partial{#}::PartialDerivative.
4
5   hide   := \partial_{c d}{g_{a b}} -> Z_{c d a b}.
6   reveal := Z_{c d a b} -> \partial_{c d}{g_{a b}}.
7
8   kill := \partial_{c}{g_{a b}} -> 0.
9
10  Aab := g_{a b} + \partial_{c}{g_{a b}} x^{c}
11              + \partial_{c d}{g_{a b}} x^{c} x^{d}.    # cdb (ex-0207.101,Aab)
12
13  substitute (Aab,hide)                               # cdb (ex-0207.102,Aab)
14  substitute (Aab,kill)                               # cdb (ex-0207.103,Aab)
15  substitute (Aab,reveal)                             # cdb (ex-0207.104,Aab)
```

$$A_{ab} = g_{ab} + \partial_c g_{ab} x^c + \partial_{cd} g_{ab} x^c x^d \tag{ex-0207.101}$$

$$= g_{ab} + \partial_c g_{ab} x^c + Z_{cdab} x^c x^d \tag{ex-0207.102}$$

$$= g_{ab} + Z_{cdab} x^c x^d \tag{ex-0207.103}$$

$$= g_{ab} + \partial_{cd} g_{ab} x^c x^d \tag{ex-0207.104}$$