Exercise 4.2 Inconsistent free indices

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{a,b,c,d,e,f,g,h,i,j,k,l,m,n,o,p,q,r,s,t,u,v,w#}::Indices(position=independent).

def deriv (poly):

    \delta^{a}::Weight(label=\epsilon).

    bah := @(poly).

    substitute      (bah,$x^{a} -> x^{a} + \delta^{a}$)
    distribute      (bah)

    foo := @(bah) - @(poly).

    keep_weight     (foo, $\epsilon = 1$)
    substitute      (foo, $\delta^{a} -> 1$)

    return foo

# ----------------------------------------------------------------

poly := c^{a}
      + c^{a}{}_{b} x^b
      + c^{a}{}_{b c} x^b x^c.     # cdb (ex-0402.100,poly)

dpoly = deriv (poly)               # cdb (ex-0402.101,dpoly)
```

$$p = c^{a} + c^{a}{}_{b} x^{b} + c^{a}{}_{bc} x^{b} x^{c} \tag{ex-0402.100}$$

$$dp = c^{a}{}_{b} + c^{a}{}_{bc} x^{b} + c^{a}{}_{bc} x^{c} \tag{ex-0402.101}$$