```
> restart;
 > w := (1-x)^a (1+x)^b (-t*x);
                            w := (1-x)^a (1+x)^b e^{-tx}
                                                                                 (1)
S:=1;C:=0;F:=0;K:=-E*t;J:=-C*t+E*a+E*b+3*E;H:=-B*t+C*a+C*b+E*a-E*
   b+2*C;B:=(A*t-C*a+C*b-E*a-E*b+G)/(a+b+1);E:=-(A*a^2+2*A*a*b+A*a*
   t+A*b^2-A*b*t+4*C*a*b+A*a+A*b+C*a+C*b+G*a-G*b)/(a-b);A:=-C;
                                     G := 1
                                     C := 0
                                    F := 0
                                   K := -E t
                               J := E a + E b + 3 E
                              H := -B t + E a - E b
                            B := \frac{A t - E a - E b + 1}{a + b + 1}
            E := -\frac{A a^2 + 2 A a b + A a t + A b^2 - A b t + A a + A b + a - b}{a - b}
                                                                                 (2)
> sigma:=collect(simplify(A+B*x+C*x^2+E*x^3+F*x^4),[x],factor);
   latex(%);
                                  \sigma := -x^3 + x
-\{x\}^{\{3\}}+x
> tau:=collect(simplify(G+H*x+J*x^2+K*x^3),[x,t],factor);latex(%);
                   \tau := tx^3 + (-a - b - 3)x^2 + (-t - a + b)x + 1
t\{x\}^{3}+ \left(-a-b-3\right)^{x}^{2}+ \left(-t-a+b\right)^{x}
> diff(sigma*w,x)-tau*w:
> collect(factor(expand(%)),[x],factor);
                                                                                 (3)
```