```
> restart;
  with(LinearAlgebra):
  Right := proc(m::posint, n::posint)

  local M0:= <<1>>, M1:= <<0>>, M2:= <<0>>, i, B;
  global T, G;
  local m0:= <<0>>, m1:= <<1>>, m2:= <<0>>, A;

  for i to n do
  local Z:= Matrix(2^(i-1)$2, 0);
  (M2, M1, M0):= (<y*M0, Z; Z, Z>, <M2, x*M0; M0, Z>, <M1+M2, x*M0;
  M0, Z>)
  od;

  for i to n do
  local z:= Matrix(2^(i-1)$2, 0);
  (m2, m1, m0):= (<y*m0, z; z, z>, <m2, x*m0; m0, z>, <m1+m2, x*m0;
  m0, z>)
  od;

  A:= (M0+m0):
  B:= (A)^m:
  T:= simplify(B[1, 1])
  end proc;

  F := proc(P)
  local temp, mindeg;
  temp := select(term->member (degree(term,[x])-degree(term,[y]),
  [0,1]), [op(p)]); mindeg := min(map(degree,temp,[x,y])); select
  (term->degree(term,[x,y])=mindeg, temp);
  end proc;
```

Right := **proc**(*m*::*posint*, *n*::*posint*)

local *M0*, *M1*, *M2*, *i*, *B*, *m0*, *m1*, *m2*, *A*, *Z*, *z*;

global *T*, *G*;

$M0 := \langle\langle 1 \rangle\rangle$;

$M1 := \langle\langle 0 \rangle\rangle$;

$M2 := \langle\langle 0 \rangle\rangle$;

$m0 := \langle\langle 0 \rangle\rangle$;

$m1 := \langle\langle 1 \rangle\rangle$;

$m2 := \langle\langle 0 \rangle\rangle$;

for *i* **to** *n* **do**

$Z := Matrix(2\hat{}(i-1)\$2, 0)$;

$M2, M1, M0 := \langle\langle y*M0|Z \rangle, \langle Z|Z \rangle\rangle, \langle\langle M2|x*M0 \rangle, \langle M0 |Z \rangle\rangle, \langle\langle M1+M2|x*M0 \rangle, \langle M0|Z \rangle\rangle$

end do;

for *i* **to** *n* **do**

$z := Matrix(2\hat{}(i-1)\$2, 0)$;

$m2, m1, m0 := \langle\langle y*m0|z \rangle, \langle z|z \rangle\rangle, \langle\langle m2|x*m0 \rangle, \langle m0|z \rangle\rangle, \langle\langle m1+m2|x*m0 \rangle, \langle m0|z \rangle\rangle$

end do;

```
    A := M0 + m0;
    B := A^m;
    T := simplify(B[1, 1])
end proc
F := proc(P)                                                              (1)
    local temp, mindeg;
    temp := select(term→member(degree(term, [x]) − degree(term, [y]), [0, 1]), [op(p)]);
    mindeg := min(map(degree, temp, [x, y]));
    select(term→degree(term, [x, y]) = mindeg, temp)
end proc
>
>
> G := select(T → abs(degree(T, x) - degree(T, y)) < 2, expand(Right(3, 6)));
  F(G, [x, y]);
        G := 20 x^4 y^5 + 180 y^4 x^4 + 244 y^3 x^4 + 508 y^4 x^3 + 100 y^3 x^3 + 44 y^2 x^3 + 2 y^3 x^2
                                                [p]                       (2)
> G := select(T → abs(degree(T, x) - degree(T, y)) < 2, expand(Right(3, 10)));
  F(G, [x, y]);
G := 144 x^8 y^7 + 3520 x^7 y^7 + 30944 y^6 x^7 + 27680 y^7 x^6 + 74492 y^6 x^6 + 40298 y^5 x^6
     + 57612 y^6 x^5 + 12180 y^5 x^5 + 1148 y^4 x^5 + 908 y^5 x^4
                                                [p]                       (3)
>
```