$pade := \textbf{proc}(f :: procedure, m :: nonnegint, n :: nonnegint, x :: name)$
    uses *LinearAlgebra*;
    local $c, p, C, bv, bn, i, j, a, b, l$;

    for p **from** 0 **to** $m + n$ **do** *# construim matricea coeficientilor Maclaurin*
       $c[p] := coeftayl(f(x), x = 0, p)$;
    end do;

    $C := ToeplitzMatrix([seq(c[m + i], i = -n + 1 .. n - 1)])$;
    $bv := \langle seq(-c[m + i], i = 1 .. n)\rangle$;

    $bn := LinearSolve(C, bv)$;
    $b[0] := 1$;
    for i **from** 1 **to** n **do**
       $b[i] := bn[i]$;
    end do;
    if $m > n$ **then**
       for i **from** $n + 1$ **to** m **do**
          $b[i] := 0$;
       end do;
    end if;

    for j **from** 0 **to** m **do**
       $a[j] := sum(c[j - l] \cdot b[l], l = 0 .. j)$;
    end do;

    return $\dfrac{sum(a[pp] \cdot x^{pp}, pp = 0 .. m)}{sum(b[pp] \cdot x^{pp}, pp = 0 .. n)}$;
 end proc;

$pade := \textbf{proc}(f{::}procedure, m{::}nonnegint, n{::}nonnegint, x{::}name)$ **(1)**
    local $c, p, C, bv, bn, i, j, a, b, l$;
    for p **from** 0 **to** $m + n$ **do** $c[p] := coeftayl(f(x), x = 0, p)$ **end do**;
    $C := LinearAlgebra{:\text{-}}ToeplitzMatrix([seq(c[m + i], i = -n + 1 .. n - 1)])$;
    $bv := \ <seq(-c[m + i], i = 1 .. n) > $;
    $bn := LinearAlgebra{:\text{-}}LinearSolve(C, bv)$;
    $b[0] := 1$;
    for i **to** n **do** $b[i] := bn[i]$ **end do**;
    if $n < m$ **then for** i **from** $n + 1$ **to** m **do** $b[i] := 0$ **end do end if**;
    for j **from** 0 **to** m **do** $a[j] := sum(c[j - l] * b[l], l = 0 .. j)$ **end do**;
    return $sum(a[pp] * x\text{^}pp, pp = 0 .. m) / sum(b[pp] * x\text{^}pp, pp = 0 .. n)$
end proc

> $R22 := pade(\exp, 2, 2, x)$;

$$R22 := \frac{1 + \dfrac{1}{2} x + \dfrac{1}{12} x^2}{1 - \dfrac{1}{2} x + \dfrac{1}{12} x^2}$$
           (2)

> $R33 := pade(\exp, 3, 3, x);$

$$R33 := \dfrac{1 + \dfrac{1}{2}\,x + \dfrac{1}{10}\,x^2 + \dfrac{1}{120}\,x^3}{1 - \dfrac{1}{2}\,x + \dfrac{1}{10}\,x^2 - \dfrac{1}{120}\,x^3} \tag{3}$$