

Filename: POLYDIV+

ClrText↵

" ":Locate 1,1,"Numerator order":?→A↵

" ":Locate 1,4,"Enter all Num' coeffs"↵

" ":Locate 1,5,"in order from highest"↵

" ":Locate 1,6,"to lowest power..."↵

{4,A+1}→Dim Mat A↵

For 0→I To A↵

" ":Locate 1,7,"Coeff, order":Locate 14,7,A-I:?→Mat A[1,I+1]↵

Next↵

ClrText↵

" ":Locate 1,1,"Denominator order":?→B↵

" ":Locate 1,4,"Enter all Den' coeffs"↵

" ":Locate 1,5,"in order from highest"↵

" ":Locate 1,6,"to lowest power..."↵

For A-B→I To A↵

" ":Locate 1,7,"Coeff, order":Locate 14,7,A-I:?→Mat A[2,I+1]↵

Next↵

"Dividing...."↵

\*Row 0,A,3↵

\*Row 0,A,4↵

0→B↵

Do↵

B+1→B↵

LpWhile Mat A[2,B]=0↵

A-B+1→B↵

Row+ A,1,4↵

For 0→F To A-B↵

Mat A[4,F+1]↵Mat A[2,A-B+1]→C↵

C→Mat A[3,B+1+F]↵

For 1→E To B+1↵

Mat A[4,F+E]-C×Mat A[2,A-B+E]→Mat A[4,F+E]↵

Next↵

Next↵

ClrText↵

Locate 1,2,"Coeff matrix rows:"↵

Locate 1,3,"1: Numerator"↵

Locate 1,4,"2: Denominator"↵

Locate 1,5,"3: Quotient"↵

Locate 1,6,"4: Remainder"↵

Mat A