gfun[ratpolytocoeff] - computes the nth coefficient of a rational function

Calling Sequence

ratpolytocoeff(**f**, **x**, **n**)

Parameters

`f` - rational function in x

`x,n` - names

Description

- The procedure **ratpolytocoeff** computes the expression for the **n**-th coefficient of the Taylor expansion about the origin of **f** as a function of **x**.

Examples

```
> with(gfun):
  ratpolytocoeff(1/(1-x-x^2),x,n);
```

$$\sum_{\_\alpha = RootOf\left(-1 + \_Z + \_Z^2\right)} \left(-\frac{\left(-\frac{1}{5} - \frac{2}{5}\,\_\alpha\right)\,\_\alpha^{-n}}{\_\alpha} \right) \tag{2.1}$$

See Also

gfun, gfun[parameters],