

CF [$\omega_.$ \mathcal{E}_E] := **CF** [ω] \times **CF** /@ \mathcal{E} ;

CF [\mathcal{E}_{List}] := **CF** /@ \mathcal{E} ;

CF [$\mathcal{E}_.$] := Module[{**vs**, **ps**, **c**},

vs = Cases [\mathcal{E} , (**x** | **p** | ξ | π) __, ∞] \cup { ϵ };

Total[CoefficientRules[Expand [\mathcal{E}], **vs**] /.

(**ps** _ \rightarrow **c** _) \Rightarrow Factor [**c**] (Times @@ **vs**^{**ps**})]];