

Rubi 5 Integration Rules (prototype)

0 Generic Rules

1 Algebraic Functions

1.0 Monomial

1.1 Linear

1.2 Quadratic

1.3 Cubic

1.4 Quartic

1.5 Binomial

1.6 Trinomial

2 Exponentials

3 Logarithms

4 Trig Functions

5 Inverse Trig Functions

6 Hyperbolic Functions

7 Inverse Hyperbolic Functions

8 Special Functions

9 Miscellaneous

Rubi 5 Utility Routines

1 Predicate Routines

Numeric type predicates

Expression type predicates

Expression form predicates

Equality predicates

Integer inequality predicates

Numeric inequality predicates

2 Polynomial Routines

PolyQ[F[x], x, n]

Expon[P[x], x]

Coeff[P[x], x, n]

PolyQuo[P[x], Q[x], x]

PolyRem[P[x], Q[x], x]

3 Miscellaneous Routines

IntPart[u]

FracPart[u]

Rt[u, n]

Star[u, v]

Subst[F[x], x, v]

ExpandToSum[F[x], x]