

Curve Book Index to Global Functions

As help for those who may wish to write new code with our functions, here functions are given alphabetically with syntax. The section containing the first mention of each function, and/or the code is given. The code is also given in Appendix 2, Global Functions which is also sorted by section. Sections given by A._ are in Appendix 1.

<code>aCurve[pts,x,y]</code>	2.5`
<code>affineInflectionPoints[f,x,y]</code>	7.4`
<code>allInfectionPoints[f,x,y]</code>	7.4`
<code>asymptotes[f,p,x,y]</code>	7.1`
<code>axisPoints[f,x,y]</code>	9.3`
<code>closestPoint[f,q,x,y]</code>	3.5`
<code>coefficientSigns[f,X]</code>	9.2.1
<code>complexProjectiveIntersectionPoints[f,g,x,y]</code>	6.4.2
<code>complexProjectiveSingularPoints[h,u,v,tol]</code>	6.4.1
<code>complexSingularPoints[f,u,v]</code>	5.3.2
<code>conicWithFoci[p1,p2,q,x,y,options]</code>	7.2`
<code>criticalPoints[f,x,y]</code>	3.5`
<code>cTransform[f,p,x,y]</code>	7.3`
<code>dAss[f,pt,n]</code>	A.4
<code>dDiagram[A, options]</code>	9.2.2, 9.A.5
<code>ddVerts[d]</code>	9.A1
<code>descartesDiagram[sa]</code>	9.2.1, 9.A.7
<code>descartesSketch[B,d]</code>	9.2.1, 9.A.7
<code>deEnd[{X,Y}]</code>	4.6
<code>deTrace[f,p,x,y,s,r]</code>	4.6
<code>difOp[f,pt,i,j]</code>	A.4
<code>dvAssoc[A]</code>	9.22, 9.A.10
<code>dTol (constant)</code>	5.3.1
<code>endFinder[f,n,CP,x,y]</code>	4.6`
<code>fAssoc[f,x,y]</code>	A.3
<code>flT[{x,y},A]</code>	6.2`
<code>FLT[f,A,x,y]</code>	6.2`
<code>flTi[p,A]</code>	6.2`
<code>FLTh[h,A,x,y,z]</code>	6.2`
<code>flth[{x,y,z},A]</code>	6.2`
<code>flts[{x,y},A]</code>	6.2`
<code>form[h,k,x,y]</code>	3.3`
<code>gaussAssoc[f,rr,x,y]</code>	9.5`

gaussCurve[p, x, y, z]	1.4`
gaussDiagram[f, rr, x, y]	9.5
gaussGraph[f, gp, x, y, tol]	4.6`
gaussGraphNS[f, CP, x, y, tol]	4.6`
gaussNewton2[f, g, p0, x, y]	2.3`
gaussNewton3[f, g, h, p0, x, y]	A.1
gaussPlot[f, r, pts]	4.2`
ghsMap[p, r]	8.3`
gPoints[f, r, x, y]	4.3`
graphSD[G, H]	8.5`
gTvec[f, p, x, y]	4.3`
homog[f, x, y, z]	5.2`
homothety[r, s]	6.3.2
infiniteRealPoints[f, x, y]	3.3`
inspectInfPoint[f, ip, r, x, y, options]	9.3`
intersectionMultiplicity[f, g, p, tol, option]	5.3.1, A.4
inverseGHsmap[{t1, t2}, r]	8.3`
invSyl[row, d, x, y]	A.3
ip2z[ip, x, y]	6.3.3
iTransform[l, x, y]	6.3.3
kLRotation[k, l, x, y]	6.3.1
kReflection[k, x, y]	6.3.1
kShear[k, x, y]	6.3.2
label13[+, +, txt]	9.2.2
label24[-, +, txt]	9.2.2
labeli[a, b, txt] i=I, II, III, IV	9.2.2
line[p, q, x, y]	1.1`
macaulayD1[f, p, m]	A..4
macaulayMatrix[f, g, p, m]	A..4
maxForm[h, x, y]	3.3`
moebiusB[t, s]	8.7`
moebiusPhi[p]	8.7`
moebiusPLMB (constant)	8.7`
moebiusRMPP (constant)	8.7`
nDivide[h, g, x, y, tol]	A.3
nearPoints[f, r, x, y, eps]	4.6`
newtonHyperbola[n, x, y]	1.3
nGCD[f, h, x, y, tol]	A.3
nrc2[S]	7.3
p2aEq[u, x, y]	A.5

<code>p2aMatrix[F,d,t,x,y]</code>	A.5
<code>p2cTransform (constant)</code>	7.3.2
<code>pathFinder[f,p,q,s,x,y,option]</code>	4.4`
<code>pathFinderDE[f,p,q,r,x,y,eps]</code>	4.6`
<code>pathFinderT[f,p,q,s,x,y,option]</code>	4.4
<code>pExps[d]</code>	2.4`
<code>pMons[d,x,y]</code>	2.4
<code>pickCyan[a,b]</code>	9.2.2
<code>pickMagenta[a,b]</code>	9.2.2
<code>pickSingularity[a,b]</code>	9.2.2
<code>pLine[p,q,x,y,z]</code>	5.3`
<code>plotAssoc[A,c1,c2]</code>	9.A.2
<code>plotDiamonds[f,rr,x,y]</code>	9.5`
<code>plotPath[f,G,V,x,y,s]</code>	4.5`
<code>plotPathDE[f,G,V,x,y,s]</code>	4.6`
<code>plotPathDES[f,G,V,x,y,eps]</code>	4.6`
<code>plotPathsS[f,G,V,x,y,s]</code>	4.6`
<code>plotPathsT[f,G,V,x,y,s]</code>	4.5`
<code>pointMinForm[f,p,x,y]</code>	3.4`
<code>pqTranslation[p,q]</code>	6.3.1
<code>randomIntegerPolynomial[d,kk,x,y]</code>	2.5`
<code>randomRealPolynomial[d,x,y]</code>	2.5`
<code>realRegularPoints[f,x,y,n]</code>	5.3.2
<code>realSingularPoints[f,x,y]</code>	3.2`
<code>sDiagram[A,options]</code>	9.A.6
<code>shiftFA[FA,q,n]</code>	A.3
<code>singularFactor[f,x,y,tol]</code>	A.6
<code>singularFactorInf[f,x,y,tol]</code>	A.6
<code>sqAssoc (constant)</code>	9.A.2
<code>sqFree[f,x,y,tol]</code>	A.3
<code>sqrSeq[p,A]</code>	9.A.2
<code>sylD1[f,m,x,y]</code>	A.3
<code>sylvesterMatrix[f,g,m,x,y]</code>	A.3
<code>tangentRealPoints[f,k,x,y]</code>	3.1`
<code>tDeg[f,x,y]</code>	2.5`
<code>tLine[f,p,x,y]</code>	3.1`
<code>toggle[A,K]</code>	9.2
<code>viroAssociation[f,x,y]</code>	9.2.2
<code>viroDiagram[f,x,y]</code>	9.2.2

`weierstrassNormalForm[f, ifp, x, y]`
`zeroA[d]`

7.5`
9.A.2