

## 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>allInflectionPoints[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>	9.2.2, 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`
<code>gaussCurve[p,x,y,z]</code>	1.4`

<code>gaussGraph[f, gp, x, y, tol]</code>	4.6`
<code>gaussGraphNS[f, CP, x, y, tol]</code>	4.6`
<code>gaussNewton2[f, g, p0, x, y]</code>	2.3`
<code>gaussNewton3[f, g, h, p0, x, y]</code>	A.2
<code>gaussPlot[f, r, pts]</code>	4.2`
<code>ghsMap[p, r]</code>	8.3`
<code>gPoints[f, r, x, y]</code>	4.3`
<code>graphSD[G, H]</code>	8.5`
<code>gTvec[f, p, x, y]</code>	4.3`
<code>homog[f, x, y, z]</code>	5.2`
<code>homothety[r, s]</code>	6.3.2
<code>infiniteRealPoints[f, x, y]</code>	3.3`
<code>inspectInfPoint[f, ip, r, x, y, options]</code>	9.3`
<code>intersectionMultiplicity[f, g, p, tol, option]</code>	5.3.1, A.4
<code>inverseGHSmap[{t1, t2}, r]</code>	8.3`
<code>invSyl[row, d, x, y]</code>	A.3
<code>ip2z[ip, x, y]</code>	6.3.3
<code>iTransform[l, x, y]</code>	6.3.3
<code>kIRotation[k, l, x, y]</code>	6.3.1
<code>kReflection[k, x, y]</code>	6.3.1
<code>kShear[k, x, y]</code>	6.3.2
<code>label13[+, +, txt]</code>	9.2.2
<code>label24[-, +, txt]</code>	9.2.2
<code>labeli[a, b, txt] i=I, II, III, IV</code>	9.2.2
<code>line[p, q, x, y]</code>	1.1`
<code>macaulayD1[f, p, m]</code>	A.4
<code>macaulayMatrix[f, g, p, m]</code>	A.4
<code>maxForm[h, x, y]</code>	3.3`
<code>moebiusB[t, s]</code>	8.7`
<code>moebiusPhi[p]</code>	8.7`
<code>moebiusPLMB (constant)</code>	8.7`
<code>moebiusRMPP (constant)</code>	8.7`
<code>nDivide[h, g, x, y, tol]</code>	A.3
<code>nearPoints[f, r, x, y, eps]</code>	4.6`
<code>newtonHyperbola[n, x, y]</code>	1.3
<code>nGCD[f, h, x, y, tol]</code>	A.3
<code>p2aEq[u, x, y]</code>	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>	2.5`
<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>viroAssociation[f,x,y]</code>	9.2.2
<code>viroDiagram[f,x,y]</code>	9.2.2
<code>weierstrassNormalForm[f,ifp,x,y]</code>	7.5`
<code>zeroA[d]</code>	9.A.2