

INDEX
(Numbers refer to pages)

A

Alpha postulate in action -- 181
Apollonian problem generalized -- 108, 189
Associates -- 3

B

Brocard theorem generalized -- 200

C

Cartesian axes -- 10
Categories -- 1
-- alpha -- 1
-- omega -- 1
Circle -- 54
-- common points of two -- 85
-- common points with a given line -- 83
-- equation of passing thru two points and cutting a given line
at a given angle -- 76
-- equation of passing thru a given point tangent to a given line
with center on a given line -- 66
-- equation of passing thru two points with center on a given line -- 63
-- general equation of -- 54
-- linear combination of two -- 92
-- polar equation of -- 137
-- passing thru a given point and cutting a given circle and a
given line at given angles -- 161
-- passing thru a given point and cutting two given circles at
given angles -- 105
-- radical center of three -- 88
-- tangent -- 61
-- thru two points cutting a given circle at a given angle -- 96
Conics -- 113
-- conventional view of -- 113
-- central diameters of -- 153
-- center and foci of -- 147, 1213
-- central diameter route to a knowledge of -- 163
-- construction of the tangents from an external point to a conic
given by five points -- 208
-- construction of the points common to a line and a conic given
by five points -- 207
-- equation of thru five points -- 205
-- eccentricity -- 143, 144
-- focal vectors -- 146

-- perfolatum -- 115
-- polar equation -- 138
-- primal state numbers-- 149
-- Primal state equation of -- 141
-- primal state numbers of -- 149
-- property -- 211
-- transmute number of -- 149
-- types from invariance -- 126

E

Ellipse --113, 127
-- equation of -- 114

F

Frame change -- 124

H

Hyper-space -- 21
Historic Diagram -- 193
Historic Diagram description -- 194

I

Iai-orthogonal -- 6

Line --

-- angle between two -- 42
-- common point of two -- 9
-- distance from a given point -- 35
-- equation of -- 8, 20
-- equation of bisector of the angle between two lines-- 43
-- intercepts of -- 26
-- normal form of -- 28
-- polar equation of -- 136
-- slope intercept equation of -- 48

M

Mutation Diagram -- 2, 5, 19, 23
Miscellani -- 49
Mutation Geometry view of college geometry -- 181
Mutation Geometry view of projective geometry -- 204

P

Pan-geometry -- 7
Pattern of thought -- 59
Postulate (alpha) -- 1, 4
Products (alpha, beta) -- 1
Prototype -- 5, 100
-- primordial -- 5
-- solution of -- 6
Simson line theorem generalization -- 197