

INDEX

- altitude, 114
- analogy between angle and length, 120
- angle
 bisectors, 106
 symbolism *ab*, 93
- arithmetic
 binary, 55
 digital, 11
 properties, 23
- associative law
 addition, 14
 group, 42
 multiplication, 15
- binary arithmetic, 55
- bisectors of angles, 106
- commutative
 group, 41
 law, addition, 14
 law, multiplication, 15
- cosets, 64
 group of, 66
- cyclic quadrilateral, 100, 112, 124, 128
 analogue parallelogram, 125
- determinant, 109
- digital arithmetic, 11
- dihedral group, 89
- distributive law, 19
- division in digital arithmetic, 25
- divisor of zero, 16, 17
- graphs in digital arithmetic, 33
- group, 40
 commutative, 41
 dihedral, 89
 fundamental properties, 43
 listed, 60–1
 of cosets, 66
 of points on circle, 81
- inverse, in group, 44
- isosceles triangle, 106
- metrical analogues, 118
- negative, in digital arithmetic, 24
- parallel lines ($u = v$ rule), 96
- parallelogram as analogue of cyclic quadrilateral, 125
- polynomials in digital arithmetic, 29
- powers in digital arithmetic, 29
- product, in a group, 41
- quadratic equation with four distinct roots, 18
- quadrilateral
 cyclic, 100, 112, 124, 128
 analogue parallelogram, 125
- right-angle complications, 97, 131
- sets, 20
- Simson's line, 104, 116, 135
- subgroup, 53, 63
- symbol ϵ , 21; \forall , 25; \exists , 25;
 \Rightarrow , 34
- triplet, ordered, 55
- unity, 23
 in group, 43
- vector, 110
- vector product, 110
 selection of notation, 113
- zero, 23