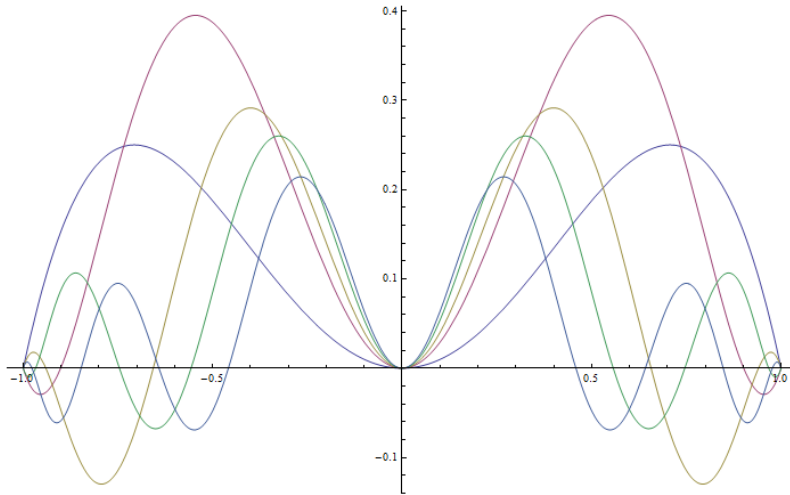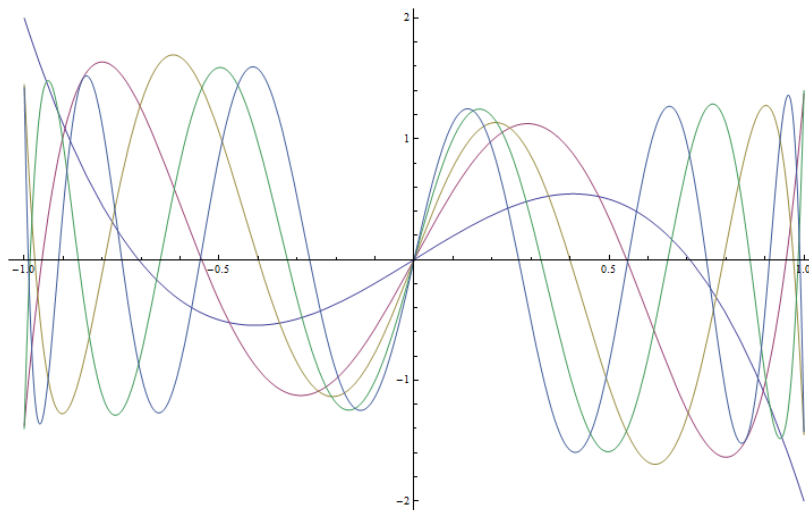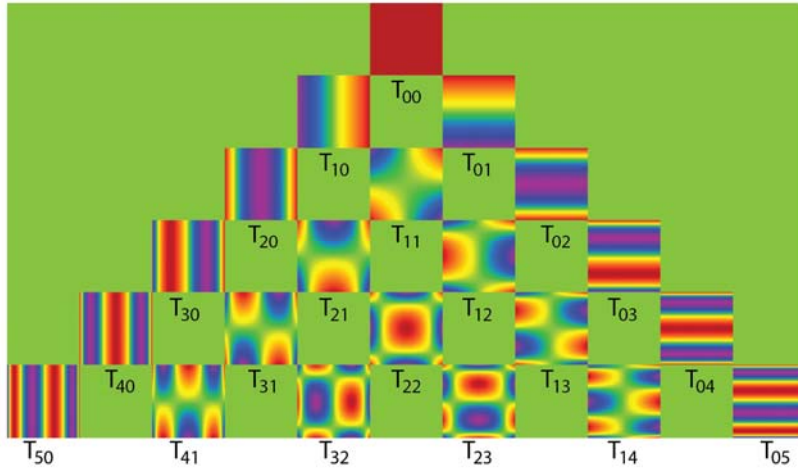# Forbes Qbfs Polynomials

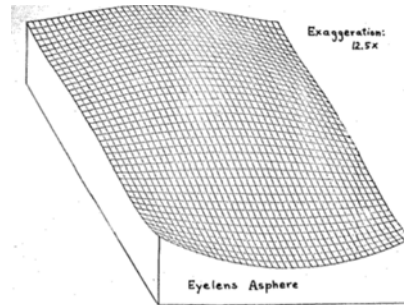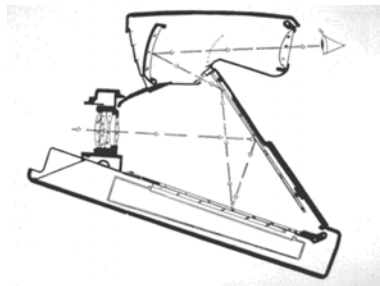# Qbfs Slope Functions

Chebyshev Polynomials

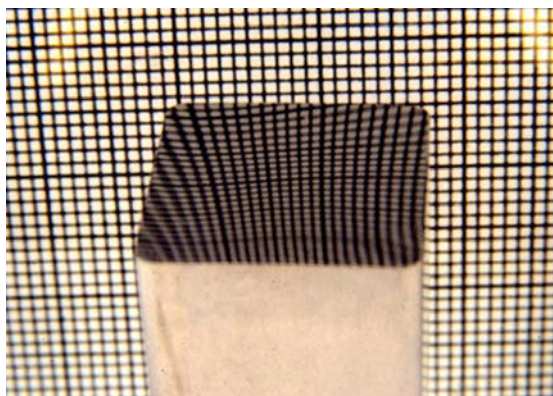# SX-70 Eye Lens

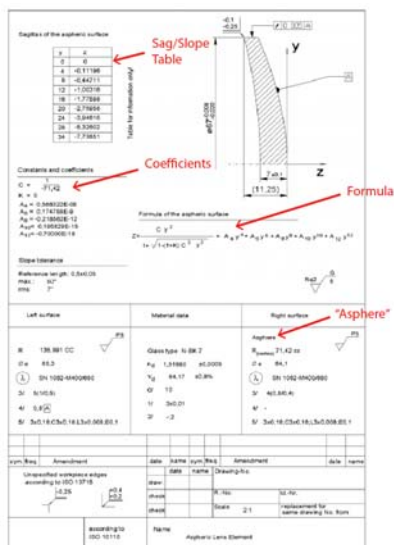
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SX-70 Eye Lens

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ISO 10110 Asphere Drawings

- ISO 10110-12 Definitions of various conic, biconic, toroidal and cylinder forms. Specs on adding info to drawings.
- ISO 10110-19 General surfaces e.g. freeform, Chebyshev, Zernike …
- ISO 14999-2 Annex A gives some example of orthogonal functions.

Asphere Drawings

- Asphere – usually base surface plus power series terms e.g. odd/even aspheres.

- Paraboloid, toroid, etc. – no power series terms.

- GS – General Surface, more complex representations like Zernikes, Chebyshev, etc.

Sagitta Tables

Cartesian or Polar tables with sag (z) and possibly slope (s) values at various coordinates. Can also include tolerances Δz and Δs.

Table 2 — Example of a sagitta table in Cartesian coordinates

X	Y	Z	S
0,0	0,0	5,213 218	7,023 156°
5,0	0,0	7,231 564	1,213 648°
5,0	5,0	3,201 487	5,812 364°
..	..	..	..

Table 3 — Example of a sagitta table in polar coordinates

ρ	φ	Z	S
0,0	0,00°	3,346 545	10,245 650°
5,0	1,57°	1,357 573	8,145 679°
5,0	3,14°	2,346 239	2,145 876°
..	..	..	..