

Section 3.7

Curve fitting

Vandermonde matrix

Three points determine a circle

Polynomial

$$(-1,1)(1,5)(2,16)$$

Circle

$$(-1,1)(1,5)(2,16)$$

Central ellipse

$(0,4)(3,0)(5,5)$

Rotation Formula for Conics

	t=0	t=10	t=20
West	1970 34.838	1980 43.171	1990 52.786

	1960	1970	1980	1990
West	28.053	34.838	43.171	52.786