

A quadratic form is a polynomial (in any number of variables) which involves only terms of degree 2.

1 variable: ax^2

2 variables: $ax^2 + bxy + cy^2$

3 variables: $ax^2 + bxy + cy^2 + dxz + eyz + fz^2$.

} where $a, b, c, \dots$ are constants.

Quadratic forms are related to symmetric matrices.

Example: $x^2 + xy + y^2 = x(x + \frac{1}{2}y) + y(\frac{1}{2}x + y)$

$$= \begin{bmatrix} x & y \end{bmatrix} \begin{bmatrix} x + \frac{1}{2}y \\ \frac{1}{2}x + y \end{bmatrix} = \begin{bmatrix} x & y \end{bmatrix} \begin{bmatrix} 1 & 1/2 \\ 1/2 & 1 \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix}.$$

In general, $\begin{bmatrix} x & y \end{bmatrix} \begin{bmatrix} a & b \\ c & e \end{bmatrix} \begin{bmatrix} x \\ y \end{bmatrix} = \begin{bmatrix} x & y \end{bmatrix} \begin{bmatrix} ax + by \\ cx + ey \end{bmatrix} = ax^2 + bxy + bxy + cy^2 = ax^2 + 2bxy + cy^2$

or more concisely, $\vec{x}^T A \vec{x} = \sum_{i,j} a_{ij} x_i x_j$

$$= \sum_i a_{ii} x_i^2 + \sum_{i < j} (a_{ij} + a_{ji}) x_i x_j$$

$$= \sum_i a_{ii} x_i^2 + \sum_{i < j} 2a_{ij} x_i x_j \quad \text{if } A \text{ is symmetric.}$$

Example: $3x^2 + 4y^2 - 3z^2 + 2xy + 6yz - 7xz$

$$= \begin{bmatrix} x & y & z \end{bmatrix} \begin{bmatrix} 3 & 1 & -3/2 \\ 1 & 4 & 3 \\ -3/2 & 3 & -3 \end{bmatrix} \begin{bmatrix} x \\ y \\ z \end{bmatrix}$$

So, any quadratic form can be written $Q(\vec{x}) = \vec{x}^T A \vec{x}$, for a unique symmetric matrix A .

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