

## QUADRATIC FORMS

## Solution:

a. 
$$x^{T}Ax = \begin{bmatrix} x_1 & x_2 \end{bmatrix} \begin{bmatrix} 4 & 0 \\ 0 & 3 \end{bmatrix} \begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} x_1 & x_2 \end{bmatrix} \begin{bmatrix} 4x_1 \\ 3x_2 \end{bmatrix} = 4x_1^2 + 3x_2^2$$
.

b. There are two -2 entries in A.

$$x^{T}Ax = \begin{bmatrix} x_{1} & x_{2} \end{bmatrix} \begin{bmatrix} 3 & -2 \\ -2 & 7 \end{bmatrix} \begin{bmatrix} x_{1} \\ x_{2} \end{bmatrix} = \begin{bmatrix} x_{1} & x_{2} \end{bmatrix} \begin{bmatrix} 3x_{1} - 2x_{2} \\ -2x_{1} + 7x_{2} \end{bmatrix}$$

$$= x_{1}(3x_{1} - 2x_{2}) + x_{2}(-2x_{1} + 7x_{2})$$

$$= 3x_{1}^{2} - 2x_{1}x_{2} - 2x_{2}x_{1} + 7x_{2}^{2}$$

$$= 3x_{1}^{2} - 4x_{1}x_{2} + 7x_{2}^{2}$$

# **Matrices And Quadratic Forms**

Mike Jess

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