7 = 8(x,y) = ax + by + c72 = 55 01 + 59 8 f \$ x x = b 72 = a1 +bf Z = \((x, \chi_1) = \(\frac{1}{2} \alpha(x_i + b_i) + S = \(\frac{1}{2} \chi_2 \chi_2 \cdots \\ \tau \chi_2 \tau_2 \chi_2 + \frac{1}{2} \chi_2 \chi_2 \chi_2 \tau_2 \chi_2 \tau_2 \chi_2 \tau_2 \chi_2 \tau_2 \chi_2 \chi_2 \tau_2 \chi_2 \ch VZ = 5 x x 1, + 5 x 12 ... + 5 x 5 12 ... + 5 x 5 12 ... $=\underbrace{\underbrace{\underbrace{8}_{6}}_{6}1}_{1}, =\underbrace{\underbrace{2}_{a_{1}}1}_{1}$ $Z = f(x,y) = A(x-x_0)^2 + B(y-y_0)^2 + C$ $\frac{\delta}{\delta x} \xi = \frac{\delta}{(x (x - x_0)^2 + B(y - y_0)^2 + C)}$ $=\frac{8}{8x}\left(A\left(x^2-2xx_0+x_0^2\right)\right)$ = 2Ax-ZA $\frac{5}{5y} f = \frac{5}{5y} (A(x-x_0)^2 + B(y-y_0)^2 + C)$ $= \frac{5}{5y} (B(x^2-2yy_0 + y_0^2))$

$$X = \begin{pmatrix} 3 \\ 4 \end{pmatrix}$$
 $y = (z + 1)$ $A = \begin{pmatrix} 4 + 5 & 7 \\ 3 & 1 & 5 \\ 6 & 4 & 3 \end{pmatrix}$

$$X^T = (3 \ 4 \ 1)$$

$$y^T = \begin{pmatrix} 2 \\ 5 \\ 1 \end{pmatrix}$$

$$X \cdot Y^T = 3.2 + 4.5 + 1.1 = 27$$

$$y \times \chi = (y \cdot \chi) = (z7)$$

$$A \times X = \begin{pmatrix} 4.3 + 4.5 + 1.2 \\ 3.3 + 4.1 + 1.5 \end{pmatrix} = \begin{pmatrix} 12 + 20 + 2 \\ 9 + 4 + 5 \end{pmatrix} = \begin{pmatrix} 34 \\ 18 \\ 37 \end{pmatrix}$$

$$A \times B = \begin{pmatrix} 3.4 + 5.8 + 1.2 & 5.4 + 2.5 + 4.2 \\ 3.5 + 5.1 + 1.5 & 5.3 + 2.1 + 4.5 \end{pmatrix} \begin{pmatrix} 40 & 38 \\ -19 & 37 \end{pmatrix}$$

$$3.6 + 5.4 + 1.3 & 5.6 + 2.4 + 4.3 \end{pmatrix} \begin{pmatrix} 41 & 50 \end{pmatrix}$$

