Wo, W, ..., Wa ing of vector W is (dx1) y, yo, frector wie n 1-6) -1  $x_1$   $y_1^2$   $\dots$   $x_d^d$  -1  $x_1$   $x_1^2$   $x_2^2$   $\dots$   $x_d^d$  -1  $x_1$   $x_1^2$   $\dots$   $x_n^d$  -11-(c) det A= 17, x2 ... x2 ... x2 ... x2 ... x2 ... x2 ... x2  $= 0 \frac{1}{2^{-1}} \frac{1}{2^{-1}}$  $= \frac{\pi}{\pi} \left( \frac{\pi}{\pi} (x_i - x_n) \right) = \frac{\pi}{\pi} \left( x_i - x_j \right)$  # # # # # # # # # #

1-(d) det A = TT (08-01)

Xi + xj (t, i+j) dold non-zero 519.

1-(e) Aw=y -A'Aw=A'y -W=A'y

Aw = y  $(A^{T}A)^{T}A^{T}Aw = (A^{T}A)^{T}A^{T}y$   $W = (A^{T}A)^{T}A^{T}y$   $W = A^{T}y$