19. Az=oolog ATAX=0	
$Ax=0  \begin{bmatrix} a_1^{(n)} & a_n \\ \vdots & \vdots \\ a_n \end{bmatrix} \begin{bmatrix} x_1 \\ \vdots & \vdots \\ x_n \end{bmatrix}$	
= 9,2+ ·- +0,24 = 0	
$\frac{\lambda^{4} \lambda_{2 \geq 0}}{\left[a_{1} \cdots a_{n}\right]} \left[a_{1} \cdots a_{n}\right] \left[a_{n} $	
=) a, (a,x,+ a,x,) = 0  a, (a,x,+ a,x,) = 0	
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(b) xTATALEO	
~ (Rx)TAx=0 ~ + T+= 0 + 84	
~ (32)TA2=0 > tT = 0 of sea.	
20. ATA's investible	
$A^{T}A = \begin{bmatrix} a_1 \\ \vdots \\ a_n \end{bmatrix} \begin{bmatrix} a_1 \cdots a_n \end{bmatrix} = \begin{bmatrix} a_1 + \cdots & a_n \\ \vdots \\ a_n a_1 \cdots & a_n a_n \end{bmatrix}$	
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