Lecture 15

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(?)

$$0_{11} \times_{1} + 0_{12} \times_{2} + 0_{13} \times_{3} : b_{1}$$

$$Q_{2}, x_{1} + Q_{2}, x_{2} + Q_{2}, x_{3} = b_{2}$$

$$Q_{31} X_1 + Q_{22} X_2 + Q_{37} X_3 - b_3$$

$$a_{21} \times_1 + a_{22} \times_2 + a_{23} \times_3 = b_2$$
 $a_{11} \times_1 + a_{12} \times_2 + a_{13} \times_3 = b_1$
 $a_{11} \times_1 + a_{12} \times_2 + a_{13} \times_3 = b_1$
 $a_{12} \times_2 + a_{13} \times_3 = b_1$

 $A: \begin{bmatrix} a_{11} & a_{12} & a_{13} \\ a_{21} & a_{22} & a_{23} \\ a_{31} & a_{32} & a_{32} \end{bmatrix} = \begin{bmatrix} b_1 \\ b_2 \\ b_3 \end{bmatrix}$

$$X_2 \longrightarrow X_1 \qquad X_2$$

$$Q_{22} X_1 + Q_{21} X_2 + Q_{23} X_3 = b_2$$

$$a_{32}x_1 + a_{31}x_1 + a_{33}x_3 - b_3$$

$$\begin{bmatrix} a_{22} & a_{21} & a_{23} & x_1 \\ a_{12} & a_{11} & a_{13} & x_2 & b_2 \\ a_{32} & a_{31} & a_{33} & x_3 & b_3 \end{bmatrix}$$

$$A_{x} = b$$

$$9 \quad A(x-y) = 0$$

det A 70

$$a_{11} \times_{1} + a_{12} \times_{2} + a_{13} \times_{3} = b_{1}$$
 $a_{21} \times_{1} + a_{22} \times_{2} + a_{23} \times_{3} = b_{2}$
 $a_{31} \times_{1} + a_{32} \times_{2} + a_{32} \times_{3} = b_{3}$

a₁₁ = 0

$$a_{11} \times a_{12} \times a_{13} \times a$$

 $q_{22} - \frac{q_{12}}{q_{11}} = 0$