

GLOSSARIY

Glossary		
A system of linear equations	chiziqli tenglamalar sistemasi	$\begin{cases} a_{11}x_1 + a_{12}x_2 + \dots + a_{1n}x_n = b_1 \\ a_{21}x_1 + a_{22}x_2 + \dots + a_{2n}x_n = b_2 \\ \dots \\ a_{m1}x_1 + a_{m2}x_2 + \dots + a_{mn}x_n = b_m \end{cases}$ <p>ko'rinishdagi yozuvga chiziqli tenglamalar sistemasi deyiladi.</p>
Solution of systems of linear equations	chiziqli tenglamalar sistemasining yechimi	$\begin{cases} a_{11}x_1 + a_{12}x_2 + \dots + a_{1n}x_n = b_1 \\ a_{21}x_1 + a_{22}x_2 + \dots + a_{2n}x_n = b_2 \\ \dots \\ a_{m1}x_1 + a_{m2}x_2 + \dots + a_{mn}x_n = b_m \end{cases}$ <p>sistemadagi barcha tenglamalarni qanoatlantiruvchi $(x_1^0, x_2^0, \dots, x_n^0)$ tartiblangan juftlikka aytiladi</p>
A matrix	Matritsa	<p>a_{ik} haqiqiy sonlar m ta satr va n ta ustunda joylashgan quyidagi to'g'ri to'rtburchak</p> $A = \begin{pmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ a_{21} & a_{22} & \dots & a_{2n} \\ \dots & \dots & \dots & \dots \\ a_{m1} & a_{n2} & \dots & a_{mn} \end{pmatrix} = (a_{ij})$ <p>shaklidagi jadvalga $m \times n$ o'lchamli matritsa deyiladi.</p>
A row	Satr	
A column	Ustun	
Operations on matrices	Matritsalar ustida amallar	

Upper triangle Matrix	yuqori uchburchakli matritsa	$\begin{pmatrix} a_{11} & a_{12} & \dots & a_{1n} \\ 0 & a_{22} & \dots & a_{2n} \\ 0 & \dots & \dots & \dots \\ 0 & 0 & \dots & a_{nn} \end{pmatrix}$ <p>ko'rinishdagi matritsaga aytiladi.</p>
Bellow triangle Matrix	Quyi uchburchakli matritsa	$\begin{pmatrix} a_{11} & 0 & \dots & 0 \\ a_{21} & a_{22} & \dots & 0 \\ \dots & \dots & \dots & \dots \\ a_{n1} & a_{n2} & \dots & a_{nn} \end{pmatrix}$ <p>ko'rinishdagi matritsaga aytiladi.</p>
Diagonal Matrix	diagonal matritsa;	$\begin{pmatrix} a_{11} & 0 & \dots & 0 \\ 0 & a_{22} & \dots & 0 \\ \dots & \dots & \dots & \dots \\ 0 & 0 & \dots & a_{nn} \end{pmatrix}$ <p>ko'rinishdagi matritsaga aytiladi.</p>
Unitary Matrix	birlik matritsa.	$\begin{pmatrix} 1 & 0 & \dots & 0 \\ 0 & 1 & \dots & 0 \\ \dots & \dots & \dots & \dots \\ 0 & 0 & \dots & 1 \end{pmatrix} = E$ <p>ko'rinishdagi matritsaga aytiladi.</p>