## Matrices

Matrix Manipulations AT: Transpose of A - Switch Rows with Columns (R1 becomes C1, R2 becomes C2 etc.)
$-A=-1 . A$
$A^{-1}$ : Inverse of $A$
$A^{-1} . I=I=A . I$

Augment Identity matrix to matrix and perform Guass-Jordon elimination on both to get change Identity matrix to the Inverse.
EROs: Switch Rows Scale Row (Multiply entire row) Add multiple of different row to another

A matrix $A$ is in row echelon form if

1. The nonzero rows in A lie above all zero rows (when there is at least a nonzero row and a zero row). 2. The first nonzero entry in a nonzero row (called a pivot) lies to the right of the pivot in the row immediately above it
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## Linear Functions

Slope-Intercept Formula: $y=m x+b$
Point-Slope: $y-y 1=m(x-x 1)$
Slope Formula: (m)=rise/run OR $m=(y 2-y 1) /(x 2-x 1)$
Standard Form: Ax $+\mathrm{By}=\mathrm{C}$
Note that b is equal to y , the b value is where the line crosses on the $y$-axis when $x$ is equal to zero

## Systems of Equations

Break-Even Point: (Fixed cost)/(Price/Unit - Variable cost)
Equilibrium Point: Qs = Qd, Supply=Demand

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