




$5x - 2y \leq 75$



$\begin{bmatrix} a & b \\ c & d \end{bmatrix}$



$S = Pe^{rt}$



$APY = (1 + \frac{r}{n})^n - 1$

### Math 1090 ~ Business Algebra

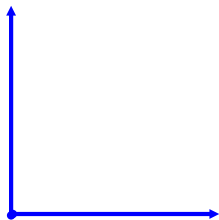
Section 1.6 Linear Business Applications

Objectives:

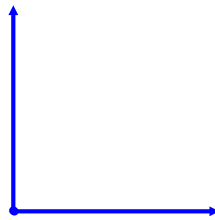
- Set up and solve Profit/Revenue/Cost application problems.
- Set up and solve Supply/Demand problems.

There are two main types of linear business applications.

Profit/Revenue/Cost



Supply/Demand





Ex 3: Find the market equilibrium point for these demand and supply curves.

demand:  $p = -4q + 300$

supply:  $p = 21q + 50$

Ex 4: A distributor will supply 10,000 calendars if the price is \$2.00 each, or will supply 8,000 calendars if the price is \$1.25. What is the supply equation?